BUCKSLIP

TO:	DR. S. SHYAM SUNDAR	**LOCATION:**	
FROM:	J. SPENCER	**DATE:**	11/27/02
SUBJECT:	ARTIFACTS STORED AT JFK		
CC:	S. BHOL, P. CHRISOPOULOS		

Attached for your information is a copy of the preservation and inventory report of WTC artifacts stored at JFK.

John F. Spencer

John F. Spencer, P.E.
Deputy Chief Engineer

Cheri
Log.
Call Gus/Gayle
for review.
12/3/02

THE PORT AUTHORITY OF NY & NJ

WORLD TRADE CENTER ARCHIVE
INTERIM STORAGE FACILITY,
JFK INTERNATIONAL AIRPORT

PRESERVATION AND INVENTORY REPORT

Draft 2: November 8, 2002
Draft 1: August 22, 2002

Prepared By:
VOORSANGER AND ASSOCIATES ARCHITECTS, PC
246 WEST 38th STREET, NEW YORK, NY 10018

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THE PORT AUTHORITY OF NY & NJ

WORLD TRADE CENTER ARCHIVE
INTERIM STORAGE FACILITY
JFK INTERNATIONAL AIRPORT

PRESERVATION AND INVENTORY REPORT

Draft 2: November 8, 2002

Prepared by:
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The Port Authority of New York and New Jersey 2002

THE PORT AUTHORITY OF NY & NJ

WTC ARCHIVE INTERIM STORAGE FACILITY, JFK INTERNATIONAL AIRPORT
PRELIMINARY INVENTORY REPORT

Prepared by:
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I. PRESERVATION REPORT
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I. PRESERVATION REPORT

THE PORT AUTHORITY OF NY & NJ

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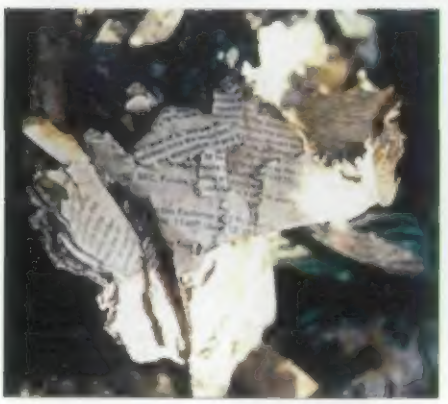
RECOMMENDATIONS FOR THE PRESERVATION OF ARTIFACTS FROM THE WORLD TRADE CENTER ARCHIVE



Submitted by:
Steven Weintraub
Art Preservation Services
315 East 89th Street,
NY, NY 10028.

October 30, 2002

THE PORT AUTHORITY OF NY & NJ

WTC ARCHIVE INTERIM STORAGE FACILITY, JFK INTERNATIONAL AIRPORT
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EXECUTIVE SUMMARY

Under the supervision of Voorsanger and Associates Architects, PC, Art Preservation Services has provided consultation services regarding environmental and conservation requirements for the preservation of the World Trade Center artifacts. Art Preservation Services is a firm specializing in the preservation of museum and other historically significant artifacts, and has consulted on many major projects including the Star-Spangled Banner for the Smithsonian Institution and the U.S. Holocaust Memorial Museum.

A key factor in these recommendations is the temporary nature of the storage facility and the need to find a proper balance between cost and benefit in terms of how the World Trade Center artifacts should be preserved during their time in storage.

The principle recommendations of this report are summarized below.

GENERAL CONSIDERATIONS

The immediate goal is to handle and locate the WTC artifacts in such a manner that will stabilize their current condition, and to do as little as possible that will compromise them with regard to how they will be used and interpreted in the future.

DECONTAMINATION

To ensure that the dual requirements of preservation and decontamination are not in conflict, interaction between the Port Authority's decontamination specialists and a conservation consultant is essential for all objects requiring special consideration, i.e. all vehicles, select steel beams (some of the trident beams), and other items as noted in the Voorsanger Report. A trained paper conservator who is familiar with the treatment of asbestos contaminated materials should undertake any abatement treatment of extremely sensitive artifacts.

STORAGE

It is essential to provide some level of environmental protection for all the artifacts stored within Hangar 17. Covers on individual artifacts will protect these objects from some problems such as dirt and bird excrement. However, without the capability of maintaining a relative humidity level below 55% throughout the year, the objects will sustain an unacceptable and irreparable level of damage. The most practical solution is to build a protective shelter within Hangar 17. Objects requiring precise climate control beyond what can be achieved within such a shelter, such as paper and other small fragile artifacts, should be stored in a separate archival facility.

HANDLING

The Voorsanger Report has selected a number of objects requiring special handling considerations. Key team members will review these designated artifacts to determine procedures for how these objects should be handled and stored.

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CONSERVATION

An initial conservation survey is required to assess current condition and to determine the need for immediate stabilization treatment. Follow-up inspection and maintenance must be undertaken during the time that the objects remain in storage.

CURATORIAL ACTIVITIES

Some level of curatorial activity should be initiated as soon as possible, focusing on the stories and contextual history of the salvaged objects.

LOAN POLICY

A number of artifacts should be pre-selected and designated as items for loan, based on the potential interest of these artifacts as loan objects and the stability of their condition relative to how and where they will be lent. These artifacts should be stored in Hangar 17 in a location where they can be easily viewed and accessed. A list of potential loan items can be provided upon request in response for legitimate requests for loan.

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RECOMMENDATIONS FOR THE PRESERVATION OF ARTIFACTS FROM THE WORLD TRADE CENTER ARCHIVE

GENERAL CONSIDERATIONS

The goal of this report is to provide recommendations on how to preserve objects selected for inclusion as part of the World Trade Center Archive. These recommendations take into account a number of key factors that differentiate these objects from "typical" museum artifacts:

- Hangar 17 is intended as a temporary storage for these artifacts, with the intention that the objects will only remain in the Hangar for no more than approximately five years. Recommendations are based on this premise.
- Asbestos and other hazardous materials may contaminate the objects. For this reason, the objects are undergoing a program of decontamination.
- The final disposition of the objects has not yet been determined. Therefore, there is no clearly defined "curatorial" context regarding the manner in which the objects will be interpreted and exhibited.

In many ways, planning for the preservation of these salvaged objects is similar to problems found in archaeological excavations rather than within a museum collection. When objects are first excavated in the field, decisions have to be made based on such conditions as the limited resources available at the site, the condition of the object and the risk of its rapid deterioration without proper treatment or storage. Should the object be treated or restored on site or after it has been placed in its final place of ownership, and to what extent should it be treated?

In general, the goal of treatment of freshly excavated materials is to preserve them from further damage. This may involve some level of treatment in order to stabilize the piece, and to handle and place it in an environment where its condition will not become worse. Since temporary storage may be somewhat primitive, the goal is to avoid significant damage until such time when it can be placed in a more stable environment. Generally, treatment is limited to short term stabilization to prevent further deterioration and any additional treatment is deferred until it is moved to a more permanent location. Since there are many levels to which an object can be restored, it is better to make such irreversible decisions based on how the object will be interpreted and exhibited, decisions that are difficult to determine in the field.

The immediate goal is to handle and locate the WTC artifacts in such a manner that will stabilize their current condition, and to do as little as possible that will compromise them with regard to how they will be used and interpreted in the future.

Technical recommendations are divided into six general categories - Decontamination, General Storage, Handling, Conservation, Curation and Loan Policy.

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DECONTAMINATION

Decontamination is somewhat at odds with the goal of stabilization and minimum intervention since decontamination may result in the removal of some of the object's historical features. Specifically, removal of or damage to any of the graffiti from the Last Column, or removal of scorched debris within some of the vehicles would cause irreparable damage to powerful emotional evidence of what took place on 9/11. If some of this evidence is lost, the interpretive value of these objects is compromised.

In order to minimize or eliminate the risk of potential damage during the decontamination process, a conservator has been working closely with specialists doing the decontamination work. For the majority of salvaged WTC materials, i.e. most of the steel beams, decontamination represents no risk and is proceeding. For the objects that do require special consideration, the conservator and decontamination specialists are working together to develop a treatment protocol that satisfies decontamination and preservation requirements. Individual objects that may require decontamination and do require conservation review are noted in the Voorsanger Report.

The items of specific concern include:

- The Last Column: This object has been decontaminated. Because of the unique importance and fragility of the graffiti and applied images on the column's surface, a very high level of collaboration between the conservator (Weintraub) and the decontamination team was essential. As the first major object treated, it provides a basis of understanding on how to proceed with decontamination of the other materials.
- Steel Beams And Other Steel Structural Elements: For the most part, these objects can be decontaminated utilizing those means and methods determined by the decontamination specialists. The few concerns, involving a number of "trident beams", are noted in the Voorsanger Report and discussed in Section II of this report.
- Vehicles: These salvaged objects represent a wide range of condition and level of risk of damage as a result of the decontamination process. The unique requirements of each vehicle necessitate that a conservator work closely with the decontamination specialists on the best approach to decontamination. This follows the protocol established for the last column, including some amount of on-site inspection time during the decontamination procedure.
- Other Three Dimensional Objects: Almost all of the other 3-dimensional objects can be treated without conservation input.
- Paper Materials: The critical question is whether there is any necessity for decontaminating fragile, paper-based materials at this time. If there is a question of risk, it is critical that the presence of asbestos be confirmed prior to any treatment in order to understand the level of risk. Decontamination treatment of such items should be deferred until their condition is assessed. If, based on a conservation condition survey, no immediate conservation treatment is indicated, there is no compelling reason to decontaminate paper-based materials at this time since these materials can be safely stored in boxes where the risk of air-born contamination is eliminated. In sum, the most immediate question to be resolved involves the level of caution and protection required to handle and examine these materials.

  Random dust samples associated with the "dirtiest" paper-based materials should be tested for asbestos. If the tests are positive, further classification of risk through additional testing, separation of items by risk (probably based on level of associated contaminated dust), and other cautionary steps should be considered. At a minimum, special handling requirements should be developed. If the tests are negative and there is a minimum of loose dirt associated with an artifact, no precautions may be required.

If some level of immediate decontamination and conservation treatment is required, a paper conservator should carry out all treatment work, including decontamination.

RECOMMENDATION

To ensure that the dual requirements of preservation and decontamination are not in conflict, interaction between the Port Authority's decontamination specialists and a conservation consultant is essential for all objects requiring special consideration, i.e. all vehicles, select steel beams (some of the trident beams), and other items as noted in the Voorsanger Report. A trained paper conservator who is familiar with the treatment of asbestos contaminated materials should undertake any abatement treatment of extremely sensitive artifacts.

STORAGE

From discussions with the PA and its consultants, the understanding is that many of the WTC artifacts will be stored in Hangar 17 for approximately five years, based on the probable time frame required for constructing an appropriate museum on or near ground zero. It is essential to create environmental conditions for the storage of these artifacts that will assure their long-term preservation.

If the time in storage is limited to five years, a tightly controlled climate is not essential for the following reasons.

- Since these artifacts are not "fine art" materials, or objects in pristine condition where any level of change in condition should be avoided, there is some level of tolerance for further deterioration.
- If some slight change in condition takes place because of less than ideal environmental conditions, it should not cause irreparable harm to the interpretive value of the object.
- However, without some moderate level of environmental protection, excessive rusting, loss of painted surfaces, etc. will result in an unacceptable level of damage.

Listed below are the environmental risks of greatest concern. Although other environmental factors, especially temperature, are of concern, the extent of damage over five years is not as great for such factors compared to the ones listed here:

- **Birds:** It is evident that birds are a problem within the Hangar. Since bird excrement is highly acidic, it is very corrosive. The surest way of protecting objects from birds is the use of protective covering for all objects

- **Dirt and Gaseous Pollutants:** Because of the location at an airport site, and within close proximity of the bay, the air is rich in particularly harmful pollutants such as chlorides and sulfurous compounds that are known to be very corrosive, especially to unprotected steel. It is essential to protect the materials from both gaseous pollutants and contaminated particulate. Since the hangar is not well sealed, it is likely that there will be significant infiltration of these pollutants. There is also a concern about the use of the other half of Hangar 17 for the storage of airport maintenance vehicles. The pollution associated with the operation of these vehicles is highly corrosive. For these reasons, some level of isolation from dust and particulate matter is essential over the 5-year period of storage.

- **Contact with Water and Formation of Dew:** All artifacts should be protected from direct contact with water, as well as water leakage from the roof. In addition, water condensation on surfaces from dew must be avoided. In an unheated space, dew formation is a problem. Condensation occurs when the air is at a high relative humidity and the surface of the object becomes colder than the

dew point of the air. In order to avoid dew formation, the artifacts should be maintained at a slightly higher temperature than outdoor air during periods of high RH and cool temperatures.

In the past, an on-site boiler heated Hangar 17 utilizing a large number of fan coil blower units located throughout the hangar. Most of the air handlers were removed from the side containing the WTC artifacts, although the piping is still in place. Recently, Hangar 17's boiler room was abated, and the boiler is supposed be operating this winter to supply heat to the opposite side of the hangar, which will house airport maintenance vehicles. It is critical that some level of heating should be provided to the WTC storage area. Since the Hangar is not well insulated, it would be more efficient if the WTC objects are stored within an enclosure within the Hangar, preferably with some level of thermal insulation, in which heat is supplied through fan coil blower packs. Since even temperature distribution is not essential, there is no need for extensive ductwork. To prevent stratification, it may be advisable to install large warehouse ceiling fans.

- **High Relative Humidity:** Prolonged exposure to high relative humidity (above 55% RH) will accelerate the formation of rust. Already, many of the steel structural elements have a thin covering of rust on exposed surfaces. In order to protect all artifacts, it will be necessary to place everything in an environment that is protected by:
    - Heating the space to raise space temperature in order to reduce space relative humidity during cold weather conditions,
    - Through the use of dehumidification equipment to reduce moisture in the air.

  In either case, given the size, leakage and lack of insulation in Hangar 17, very large capacity equipment would be required to condition the entire hangar. Alternatively, constructing a smaller sealed space built within the hangar could isolate the artifacts. If heated to control RH, the space would require some level of thermal insulation. If dehumidified, the space would require a well-sealed moisture barrier. The most cost-effective way to provide environmental control within this temporary storage space is through the installation of a series of well-sealed tents (see Appendix).

Relative risk to objects must be weighed against cost of protection. In the case of bird droppings and dust, simple plastic coverings are sufficient. Protection against dew formation would require the capacity to maintain a slightly elevated temperature for all artifacts during certain weather conditions. Maintenance of a relative humidity below 55% will require the isolation of artifacts from general environmental conditions within the hangar, and the use of specialized equipment for additional heat or moisture removal. **Without some means of avoiding exposure to a high relative humidity, many of the artifacts will sustain an unacceptable level of damage over the period of five years in storage.**

Because of the relatively high cost of protection, it may be necessary to select out certain types of artifacts for protection and accept a higher degree of risk to other materials. For example, if it is impossible to provide adequate protection for all artifacts, some form of enhanced protection should be provided for objects at special risk, or of special concern, such as the vehicles. Since the vehicles take up a much smaller amount of floor space, selective artifact protection is an option for minimizing cost and potential deterioration to key artifacts.

Extremely fragile materials, such as the paper artifacts, will require a more controlled environment then most of the other artifacts in order to prevent an unacceptable level of damage. It will be expensive and

difficult to maintain precise climate control conditions anywhere in Hangar 17, especially if an experienced museum specialist does not regularly occupy the space. It would be safer and more cost-efficient to locate these highly moisture sensitive artifacts in a properly controlled, secured archival space. If the Port Authority has or is in the process of developing such a space for other archival materials, the WTC materials should be stored in this space as well. If no such space is available through the Port Authority, and no other archival space is available, then a proper space must be provided. Again, because of security and maintenance issues, a decision needs to be made concerning the benefit of locating this space within Hangar 17, or in another, more controllable and secured space.

RECOMMENDATION

It is essential to provide some level of environmental protection for all the artifacts stored within Hangar 17. Covers on individual artifacts will protect these objects from some problems such as dirt and bird excrement. However, without the capability of maintaining a relative humidity level below 55% throughout the year, the objects will sustain an unacceptable and irreparable level of damage. The most practical solution is to build a protective shelter within Hangar 17. Objects requiring precise climate control beyond what can be achieved within such a shelter, such as paper and other small fragile artifacts, should be stored in a separate archival facility.

HANDLING

Some of the objects, particularly the vehicles, are in bad condition and will be further damaged if they are not properly handled. Objects requiring special handling considerations or pallets are designated in the Voorsanger Report. Handling involves two types of concerns.

- Movement: "At risk" artifacts, such as many of the vehicles, should be moved into the Hangar with great care so as to avoid further damage. As each artifact will present unique complications and requirements it is advised that key team members meet to determine procedures for handling, decontamination, placement within the hanger and to coordinate the tasks.
- Storage: While in storage, all artifacts should be placed off the floor in order to protect against water damage. All vehicles should be stored so that the weight is taken off the tires. Fragile objects that are at significant risk of damage when moved, such as the badly rusted and crushed cars, should be palletized. Once in the hangar, any further movement of these artifacts should be avoided until they are permanently removed from storage. The placement of these artifacts should take into account how they will be accessed and moved in the future.

Prior to moving objects into the hangar, a team of specialists, consisting of representatives from the PA, the architect's office, the conservation consultant, and the contractors who will undertake the movement and treatment of the artifacts must meet on site to discuss means and methods for how each of the specially designated objects will be moved and stored in place. At that time, the following requirements regarding the safest way to lift and transport each object will be determined:

- Placement and removal of the object from the flat bed truck to minimize damage
- Need for the object to be palletized
- Special handling issues for designated objects
- Storage, requirements of the vehicles i.e. how they will be jacked up and supported to take the weight off the tires and weak points of the chassis

These decisions will be written up as a protocol for how these specially designated artifacts should be handled, moved and stored, which will be of benefit for future moves in relation to loan requests or movement to their final location.

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RECOMMENDATION

The Voorsanger Report has selected a number of objects requiring special handling considerations. Key team members will review these designated artifacts to determine procedures for how these objects should be handled and stored.

CONSERVATION

Very few of the salvaged WTC artifacts require conservation treatment at this time. However, conservation means more than just treatment.

Conservation consists of four steps:

- Survey
- Treatment
- Periodic Inspection
- Maintenance

The Survey

A conservation survey consists of a systematic examination of each object, resulting in a written description of an artifact's condition and supplemented, as necessary, by photo documentation. A good conservation survey should identify existing damage and provide information regarding the need for stabilization or other forms of conservation treatment (depending on how an artifact will be exhibited or used), and should describe unusual considerations such as special handling requirements. The most critical factor is the need to focus on how to prevent future damage.

The catalogue work completed by Voorsanger Associates Architects is an important initial step in the survey process. This must be followed up by a more detailed survey of artifacts by a conservator. The level of fragility and risk to the object should determine the extent of detail required per object. For example, unique and very fragile items such as the Last Column will require an extensive survey while other items such as most of the structural steel elements will require very little further documentation. All paper-based materials will require a relatively careful survey. Information from the general survey will form the basis of the loan policy in regards to which artifacts can be loaned with minimal risk, and which are too fragile to be moved and transported.

Upon completion of the Voorsanger cataloging process, an estimate of the amount of detailed conservation survey work will be determined. The survey work should take place after the objects have been moved into Hangar 17, since the practical objective of storage is to monitor and prevent any further damage once the objects are properly stored.

Treatment

As stated in the Introduction to this report, conservation treatment should be limited to artifact stabilization. The amount of stabilization work will be determined as a result of the conservation survey, described above. Only artifacts that may go out on loan should be treated, as required, beyond the need for basic stabilization.

At some future date, further conservation treatment may be required, determined by how an artifact will be interpreted and exhibited. However, the institution that ultimately assumes responsibility for an artifact should also be responsible for decisions regarding the level of conservation treatment required.

Specific conservation concerns for the different type of artifacts will be described in an appendix. In general, most of the objects will require no treatment work. Certain objects, such as some of the paper-based materials, may require treatment.

Periodic Inspection

After the artifacts are placed in storage, they should be inspected on a periodic basis to assure that they remain in good condition. The level of environmental protection within the storage enclosure will affect the frequency and extent of inspection. If the artifacts are subject to extreme climatic conditions, they should be inspected on a regular basis (once a month during extreme conditions) to ensure the stability of the artifacts. If damage is noted, consideration should be given to methods for limiting further damage.

If the objects are maintained within a fairly well controlled environment, a semi-annual program of inspection is sufficient. A specialist who is familiar with the condition of the artifacts should undertake the actual inspection. For example, if the PA hires a part-time or full-time registrar or collections manager, regular inspection should be within their scope of responsibility. In support of in-house inspection, there should be an allocation for periodic review by a conservator (for example, on an annual basis, or as required when problems are noted).

In addition to a physical review of the collection, supplemented by photo documentation, as required, environmental monitoring of the space is essential. The environmental monitoring system should be designed with remote alarm capacity. The type and level of monitoring will be based on the type and extent of protective housing and equipment employed within Hangar 17. The registrar or collections manager would be responsible for collecting, reviewing and archiving environmental data

Maintenance

Based on the results of periodic inspections and environmental monitoring, some level of maintenance may be required. Maintenance refers to the physical storage space and associated air handling and monitoring equipment, as well as any further conservation/stabilization work on the collection.

RECOMMENDATION

An initial conservation survey is required to assess current condition and to determine the need for immediate stabilization treatment. Follow-up inspection and maintenance must be undertaken during the time that the objects remain in storage.

CURATORIAL ACTIVITIES

Definition of curator and registrar/collections manager and activities

The institution that takes final possession of the artifacts should assume the ultimate responsibility for curatorial activities. However, since this decision regarding transfer of curatorial responsibility and ownership may not take place for a number of years, some level of research should be initiated as soon as possible. Specifically, many of the artifacts such as the vehicles or the Last Column have association with individual stories. As years pass, it will be increasingly difficult to track down or verify such stories. Some level of historical research or oral history as it relates to the salvaged WTC artifacts should be undertaken as soon as possible while it is still possible to obtain this information. Such input will have an important impact on how objects should be preserved, exhibited and interpreted.

There are a number of specialists at other institutions involved in the collection of WTC related materials, including the New York State Museum and the American History Museum of the Smithsonian Institution, as well as the two principle New York City history museums, The New York Historical Society and The Museum of the City of New York. Such a specialist should be contacted regarding the best way to initiate and coordinate such curatorial activities. Because of the high level of interest in the events surrounding 9/11 and the WTC, there are many options for how such curatorial activity can be funded.

Professional quality photography, or specific, detailed photographs of artifacts (such as the signatures on the Last Column) that assist in the curatorial interpretation of the artifact, may be required to assist in this initial curatorial phase of activity. Supplementary photographs of artifacts, beyond those provided by Voorsanger & Associates, Architects, may also be useful to meet requests for information about these artifacts by planners, historians, or the general public.

RECOMMENDATION

Some level of curatorial activity should be initiated as soon as possible, focusing on the stories and contextual history of the salvaged objects.

LOAN POLICY

Because of the tremendous impact that 9/11 has had on all our lives, there will probably be many requests for loan of WTC objects, particularly when the extent of the PA's WTC Archive is made public. Decisions must be made about what type of artifacts may be available for loan. If no objects will be lent until the artifacts are permanently given to other institutions, then lending is not an issue. However, if some objects may be lent, it is important to take into account the condition of these artifacts and whether further treatment is required prior to loan. The Voorsanger Report and the recommended conservation survey will form the basis of the loan database.

The loan policy must take into account both the safety and the condition of the artifact. Most of the vehicles may not require decontamination or stabilization treatment in storage since they are relatively stable and present no risk while in storage. However, if a vehicle is lent out, an entirely different standard of stabilization is required. This relates to issues such as whether the vehicle will be sufficiently isolated from the public so that it requires no further decontamination and whether the vehicle is in sufficiently sound condition to be moved multiple times. If not, the loan of the vehicle should not be undertaken if it compromises both public safety and stability of the artifact. Considerations regarding the practicality and cost of lending an object must also be addressed.

Certain objects should not be loaned under any circumstances due to the fragility of the object and the risk of moving it. Specifically, the Last Column should not be loaned under any circumstances because of the very fragile condition of the surface graffiti and the attached items. Each time that the column has been moved, there has been surface damage to the column. The extremely high probability of further damage to the column when it is moved, even after the surface is stabilized through an intensive conservation effort, is the reason that the column should never be loaned.

RECOMMENDATION

A number of artifacts should be pre-selected and designated as items for loan, based on the potential interest of these artifacts as loan objects. The physical condition of the artifact and the conditions under which it will be exhibited at the borrowing institution must also be taken into account. These artifacts should be stored in Hangar 17 in a location where they can be easily viewed and accessed. A list of potential loan items can be provided upon request in response for legitimate requests for loan.

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APPENDIX 1

Recommendation for the design of an interior environment within Hangar 17

It is necessary to construct a protective structure within Hangar 17 for all the artifacts. All surfaces of the structure should have a very low water vapor transmission rate (WVTR) and good thermal insulation properties. All seams and penetrations should be well sealed to prevent moisture infiltration, and all openings should be designed to create an airtight seal when not in use.

For the skin, Dura Skrim 10FR or its equivalent (see attached data sheet) is recommended. This material consists of two sheets of high-strength fire-retardant polyethylene laminated together by molten polyethylene and reinforced with heavy-duty scrim. This material has a very low WVTR. A thermal barrier material with a high R-value, such as batt insulation, should in turn, insulate it.

If the boiler becomes operational, large fan coil units should be installed to supply the interior of the protective structures. The size of the units will depend on the manner in which the structure is constructed, particularly the capability of the R-value. The temperature should be maintained at least 20°F above ambient to control RH. As stated above, some level of air distribution and temperature equalization to offset stratification is required to insure a +/- 5 °F capacity in the lower section of the enclosure where the objects are located.

Dehumidification will be required during warmer times of the year. A large capacity dehumidifier such as those supplied by Dectron or Desert Aire should be installed per enclosure. The size of the unit will be based on the size and calculated rate of infiltration of each enclosed space. As a cost-effective alternative to single large units, an alternative unit, manufactured by Therma-Stor, DEC (model 195) is recommended (see attached data sheet). Although the largest size is limited to 183 pints/day @ 80°F, 60%, it may be more efficient to install multiples of these units rather than a single large dehumidifier for a number of technical and cost-based reasons. The determination of the most cost-effective dehumidification strategy will be based on the overall size and estimated load factor of each enclosure.

It may be possible to utilize a part of the existing structure of the hangar as specialized storage for the last column and other small artifacts. Specifically, some of the smaller rooms located at the end of Hangar 17 (approximately 40 feet in length) could be combined as a high security and environmentally controlled viewing area for select artifacts.

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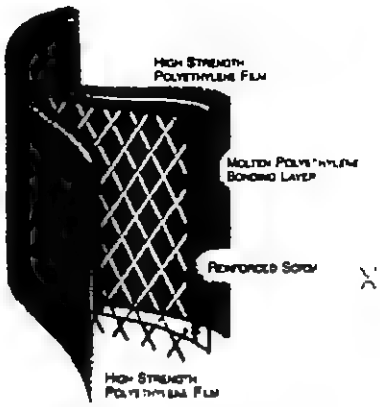
DURA SKRIM® 2FR & 10FR

PRODUCT DESCRIPTION

DURA SKRIM 2FR and 10FR consist of two sheets of high-strength fire-retardant film laminated together with a third layer of molten polyethylene. A heavy-duty scrim reinforcement placed between these plies greatly enhances tear resistance and increases service life. **DURA SKRIM's** fire-retardant films meet or exceed NFPA's 701 large and small scale requirements in addition to CPAI Section 6 and 7.



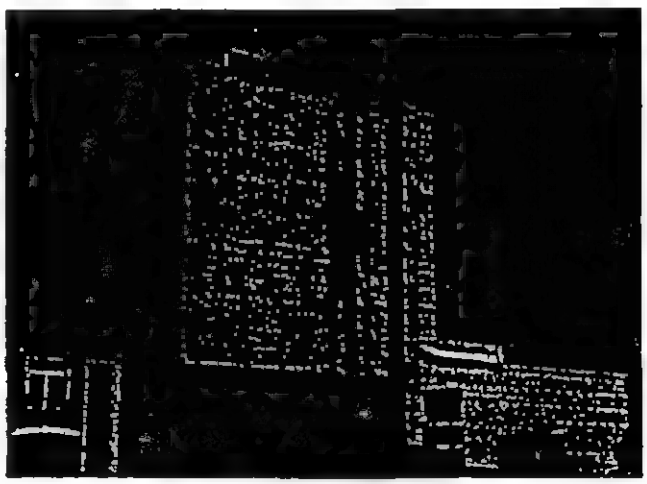
PRODUCT USE

DURA SKRIM 2FR and 10FR are used in applications that require a fire-retardant material, and demand high puncture and tear strengths.

SIZE & PACKAGING

DURA SKRIM 2FR and 10FR are available in a variety of widths and lengths. Panel sizes up to 40,000 square feet are available. All panels are accordion folded and tightly rolled on a heavy-duty core for ease of handling and time saving installation.

DURA-SKRIM®



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DURA SKRIM® 2FR & 10FR

PROPERTIES	TEST METHOD	DURA•SKRIM 2FR		DURA•SKRIM 10FR	
		English	Metric	English	Metric
APPEARANCE		Translucent, Cream Color			
THICKNESS, NOMINAL		6 mil	0.152 mm	10 mm	0.25 mm
WEIGHT PER MSF		20 lbs	9.0 kg	43 lbs.	19.5 kg
CONSTRUCTION		Extrusion laminated with scrim reinforcement			
***1" TENSILE STRENGTH**	ASTM D751	40 lbf.	178 N	50 lbf.	222N
ELONGATION AT BREAK	ASTM D751	400%	400%	700%	700%
***GRAB TENSILE**	ASTM D751	50 lbf.	223 N	78 lbf.	347 N
***TRAPEZOID TEAR**	ASTM D4533	35 lbf.	156 N	52 lbf.	231 N
HYDROSTATIC RESISTANCE	ASTM D751	32 psi	220 kPa	74 psi	510 kPa
MULLEN BURST	ASTM D751	53 psi	365 kPa	169 psi	1165 kPa
MAXIMUM USE TEMPERATURE		180°F	82°C	180°F	82°C
MINIMUM USE TEMPERATURE		-70°F	-57°C	-70°F	-57°C
PERMEABILITY					
WVTR	ASTM E96 Method A	0.0581 g/100in²/day	0.9010 g/m²/day	0.0132 g/100in²/day	0.2040 g/m²/day
PERM RATING	ASTM E96 Method A	0.1315 U.S. Perms	0.0865 Metric Perms	0.030 U.S. Perms	0.020 Metric Perms
BURNING CHARACTERISTICS **FLAME SPREAD INDEX** **SMOKE DEVELOPED VALUE**	ASTM E84 Method A	0 20		5 75	

DURA-SKRIM®

MEETS OR EXCEEDS THE FOLLOWING FIRE TESTING:
1. National Fire Protection Association (NFPA) 701 Large and Small Scale
2. Canvas Products Association International (CPAI) Section 6 (Flooring Material)
3. Canvas Products Association International (CPAI) Section 7 (Wall and Top)
4. Class "A" Wall and Ceiling Finish Category as given in the National Fire Protection Association Life Safety Code 101, Section 6-5.3, "Interior Wall and Ceiling Finish Classification" (ASTM E-84-97a)

DURA SKRIM 2FR and 10FR are fire-retardant four-layer reinforced extrusion laminates. The outer layers consist of a high quality polyethylene film with a high concentration of fire-retardant additives. DURA SKRIM 2FR and 10FR are reinforced with a minimum of 900 denier scrim laid in a diagonal pattern spaced 3/8" apart with an additional machine direction scrim every 9" across the width. The individual plies are laminated together with molten polyethylene.

Note: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. AMERICOVER® MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

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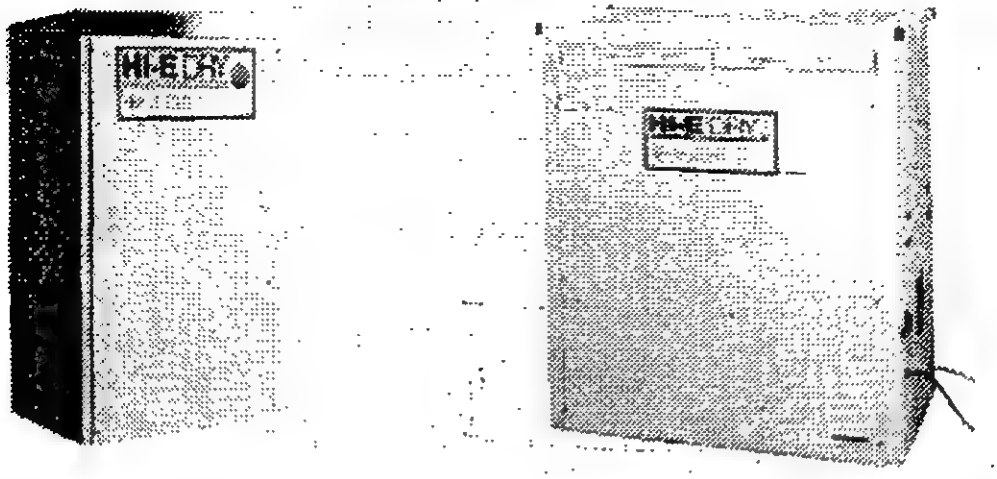
HI-E DRY

THE HIGH-EFFICIENCY DEHUMIDIFIER



HI-E DRY Model 100

Water Removal Rates (Pints/Day)

90°F, 90%	172 pints
80°F, 80%	129 pints
80°F, 60%	106 pints
70°F, 80%	113 pints
70°F, 60%	83 pints
60°F, 80%	94 pints
60°F, 60%	64 pints
50°F, 80%	67 pints
50°F, 60%	25 pints

Specifications

Width	17 inches
Length	20 inches
Height	36 inches
Weight	110 lbs.
Power	115 VAC 7 amps
Blower	255 CFM
Capacity (24 hrs.)	106 pints (80°, 60%)
Temp. Range	33°F–110°F
Warranty	5 Year Limited

HI-E DRY Model 195

Water Removal Rates (Pints/Day)

90°F, 90%	312 pints
80°F, 80%	239pints
80°F, 60%	183 pints
70°F, 80%	197 pints
70°F, 60%	105 pints
60°F, 80%	159 pints
60°F, 60%	72 pints
50°F, 80%	81 pints
50°F, 60%	40 pints

Specifications

Width	19 inches
Length	37 inches
Height	42 inches
Weight	175 lbs.
Power	115 VAC 12 amps
Blower	540 CFM
Capacity (24 hrs.)	183 pints (80°, 60%)
Temp. Range	33°F–110°F
Warranty	5 Year Limited

All illustrations and specifications contained in this brochure are based on the latest product information available at the time of printing. Therma-Stor Products reserves the right to: (1) make changes at any time, without notice, to product designs, specifications, materials and colors, (2) introduce new products to the marketplace, and (3) discontinue products as it sees fit. If you have any questions, call 1-800-533-7533.

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P.O. Box 8050, Madison, WI 53708
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APPENDIX 2

Art Preservation Services Profile

Art Preservation Services (APS), founded in 1988, specializes in environmental preservation of museum collections. Activities include consultation on the design and trouble-shooting of mechanical systems for environmental control of buildings, historic structures and room environments. In addition to Steven Weintraub, principal of APS, William Wladyka, a mechanical engineer and former president of the NYC chapter of ASHRAE, is an associate consultant for APS.

APS has developed unique systems for relative humidity control in historic structures, including the Warner-Wilson House, Odessa, DE. Through the use of unique equipment for dehumidification and control, an extremely cost-effective system was installed that required no structural modifications to the existing structure.

APS has developed unique systems for passive control of RH within exhibition cases, and has consulted with many museums on exhibition case design to ensure proper RH control.

Arten hygrometers, Arten Silica Gel, and Rhapid Gel, the newest product released by APS, are all examples of products developed and sold by APS. These products are found in many museums throughout the United States and worldwide, including the National Gallery, the Smithsonian Institution, and the Metropolitan Museum of Art.

APS is actively involved in research on topics relating to the preservation of museum collections. In 2001, Fenella G. France, PhD., joined APS as research scientist. Prior to this, Dr. France was Research Scientist for the Star Spangled Banner Conservation Project. As a result of research on visual perception and color temperature, Weintraub and his collaborating researchers at the City University of New York were awarded a federal research grant from the National Center for Preservation Training and Technology. The consequences of this research, which will be published in 2003, will have a major impact on how exhibition galleries are illuminated.

THE PORT AUTHORITY OF NY & NJ

WTC ARCHIVE INTERIM STORAGE FACILITY, JFK INTERNATIONAL AIRPORT
PRELIMINARY INVENTORY REPORT

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2002
CURRICULUM VITAE
STEVEN WEINTRAUB

Art Preservation Services

315 East 89th Street

New York, New York 10128

Tel: (212) 722-6300
Fax: (212) 427-6726

EMPLOYMENT

October 1988 - Present

Founder and Principal of *Art Preservation Services*,
a firm specializing in consultation, research and product development for the Museum Environment.

Previous Positions

July 1986 - October 1988

Head of Conservation Processes, Scientific Research Program, *Getty Conservation Institute.*

January 1975 - June 1986

Objects Conservation Department, *Metropolitan Museum of Art*

ACADEMIC QUALIFICATIONS

1976 Certificate in Conservation, *NYU*, Conservation Center, NY.
1975 M.A. (Art History) *NYU*, Institute of Fine Arts, NY.
1970 B.A *Colgate University*, NY.

LECTURING & TEACHING

- Numerous presentations at professional organizations such as the American Institute for Conservation and the American Association of Museums
- Frequent participation as principal instructor for environmental and preservation workshops

CURRENT PROFESSIONAL ACTIVITIES

- National Information Standards Organization – Member of the committee for ANSI/NISO Z39.79 –2001 (Environmental Conditions for Exhibiting Library and Archival Materials)
- Star Spangled Banner – Member of the Technical Advisory Committee

(Partial)

PUBLICATIONS

(Partial)

Weintraub, S. "Louis Kahn & the Art of Light" Kimbell Art Museum Calendar (September 2002).

Weintraub, S. Goldberg, L. "Health and Safety News (Indicator Silica Gel)" AIC News Vol. 26, No. 1, (January 2001).

Weintraub, S. "The Color of White: Is There a "Preferred" Color Temperature for the Exhibition of Works of Art?" WAAC Newsletter, Vol. 21, No. 3, (September 2000).

Weintraub, S. "Revisiting the RH Battlefield: Analysis of Risk and Cost" WAAC Newsletter, Vol. 18, No. 3, (September 1996).

Weintraub, S., Blankenbaker, E. and Klinger, J. "The United States Holocaust Memorial Museum: Preserving History Against All Odds?" WAAC Newsletter, Vol. 16, No. 3, (September 1994) 16.

Weintraub, S. & Anson, G. "Natural Light: An Asset or a Threat?" Progressive Architecture, (May 1990) 49-54.

RESEARCH & DEVELOPMENT

(Partial)

- Color temperature and visual perception
- Optimized silica gel systems for passive RH control
- Exhibition case leakage evaluation and protocols
- Museum specific environmental monitoring equipment

RECENT PROJECTS

(Partial)

- American Museum of Natural History
- Amon Carter Museum
- Ellis Island (National Park Service)
- Museum of New Mexico
- National Gallery of Art
- National Museum of the American Indian
- Star-Spangled Banner Project (National Museum of American History)
- Tennessee State Museum
- U.S. Holocaust Memorial Museum
- World Trade Center Archive (Port Authority of NY & NJ)

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Curriculum Vitae 2002

Fenella G. France Ph.D MBA

Current Employment

October 2001 - Present

Art Preservation Services

Research Scientist, Project Management & Coordination.

Develop and coordinate conservation and environmental research activities.
Provide project management for consultation and fieldwork.

Recent Projects Include:

- Consultant Researcher for Port Authority, New York, NY – World Trade Center Recovered Artifact Preservation Project
- Consultant Researcher for Colonial Williamsburg, VA – George Washington's Tent [c.1770] Preservation Requirements
- Star-Spangled Banner Project, NMAH, Washington DC.

Previous Positions

Sep 1998 – Mar 2001
National Museum of American History, Smithsonian Institution, Washington DC – Star-Spangled Banner Project

Research Scientist

- Research on the state of the deterioration of the S-SB [1813] – the 30 x 42' flag that inspired the American National Anthem.
- Analysis and determination of optimum artifact preservation needs, integrated with environmental requirements and issues.

Jan 1997 – Sep 1998
University of Otago, Dunedin, New Zealand.
Research & International Postgraduate Degrees Manager

- Management of Ph.D, Medical and other Higher Degrees
- Postgraduate Examination Procedure & Policy Development
- Collaboration with University Board of Graduate Studies

Jan 1994 – Jan 1997
University of Otago, Dunedin, New Zealand.

Textile Science Lecturer & Research Fellow

Research Projects Included:

- Maori Heritage Research (1995) *The Photo-degradation of Flax*
- Consumer Institute, NZ (1996) *Assessment of Paper Towels*

NZ – China Research Collaboration (1997) *Analyzing Deer Antler.*

Qualifications

1995 Ph.D (Textile Science) University of Otago. Dunedin, New Zealand)
MBA, 1999 Deakin University / APESMA (Melbourne, Australia)

Multi-Disciplinary Background
Multi-disciplinary experience including: textile science, law, commerce, business ethics, communication, information systems, clothing and general design and fitness management. This broad range of exposure has reinforced my awareness that the key to research coordination is to combine an overall perspective of a project with an ability to incorporate relevant cross-disciplinary concepts.

Publications / Presentations

France, F.G., Thomassen-Krauss, S., Nûnez, A. and Marmer, W.N. Analysis of Soiling and Trace Contaminants of the Star-Spangled Banner **North American Textile Conservation Conference Preprints**, Philadelphia PA & Winterthur DE, (April 2002) 153-168.

France, F.G. "The Fabric of Flags" (Presenter), Fourth **Annual Flag Symposium – Flag Making in the Early Republic**, Baltimore, MD, (31 March 2001) http://www.nava.org/baltimore2001.htm

France, F.G. Final Internal Report, *Star Spangled Banner Project*, **National Museum of American History, Smithsonian Institution, Washington, D.C.** February (2001).

France, F.G. Internal Interim Reports No. 1-5, *Star Spangled Banner Project*, **National Museum of American History, Smithsonian Institution, Washington, D.C.** (1999-2001).

France, F.G, "The Star Spangled Banner Project – Utilization of Science in Conservation", **United States Department of Agriculture**, Eastern Regional Research Center, Wyndmoor, PA, (September 2000).

France, F.G. "Integration of Science with Conservation – Preserving our Heritage; the Star Spangled Banner" (Presenter), **American Women in Science**, Philadelphia, PA, (April 2000).

France, F.G. & Weatherall, I.L. Final Recommendation Report, *Star Spangled Banner Project*, **National Museum of American History, Smithsonian Institution, Washington, D.C.** (October 1999).

France, F.G. & Weatherall, I.L. Internal Interim Reports No. 1-5, *Star Spangled Banner Project*, **National Museum of American History, Smithsonian Institution, Washington, D.C.** (1998-1999).

France, F.G. & Weatherall, I.L. "Light induced crosslinking of wool" **Proceedings of the 3rd Asian Textile Conference** (1995): vol. II, 892-896.

France, F.G. & Weatherall, I.L. "The effect of light on wool" **Proceedings of the 9th International Wool Textile Research Conference, Biella** (1995): vol II, 100-108.

France, F.G. **The Effect of Light on Wool Fibres**, Ph.D Thesis, University of Otago, (1995): 253p.

France, F.G. & Weatherall, I.L. "Torsional Properties of wool fibres" **Proceedings of the 9th International Wool Textile Research Conference, Christchurch, WRONZ** (1990): 609-618.

France, F.G. The Torsional Properties of Wool Fibres, M.CApSc Thesis, University of Otago, (1989): 47p.

Prepared by:
VOORSANGER & ASSOCIATES ARCHITECTS, PC 246 WEST 38th STREET NY, NY 10018 Tel 212. 302. 6464

SPECIAL CONDITIONS
PRESERVATION REPORTS

THE PORT AUTHORITY OF NY & NJ

WTC ARCHIVE INTERIM STORAGE FACILITY, JFK INTERNATIONAL AIRPORT
PRELIMINARY INVENTORY REPORT

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August 20, 2002

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New York, NY 10018
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Port Authority WTC Artifact Preservation Project
Re: Issues & Concerns for the Last Column

Of all the objects preserved from the WTC site, the last column removed from Ground Zero is one of the most unique and memorable artifacts, and one that requires special consideration. This column was at the center of world attention when the recovery effort officially was brought to a close and the column was ceremoniously removed. It became more than just a recovered object; it transformed into a symbol. Unlike other salvaged artifacts that carry the scars of 9/11, this object is about the weeks and months after 9/11, where rescuers and workers at the site expressed themselves by writing their names and feelings, or by hanging photographs or placing flowers on the column. As such, the thoughts and emotions of those who wrote on the column or taped up photographs must be preserved. Unlike the other salvaged columns, where the importance is the overall object, the uniqueness of this column is the graffiti and attached paper objects.

In spite of the size and solidity of this column, the graffiti covered surface and attached paper objects are extremely fragile, and are likely to be irreparably damaged if not properly protected. The following comments address immediate procedures for how to preserve the surface and fragile objects. Listed first and foremost are concerns regarding how the column should be handled and displayed.

EXHIBITING THE LAST COLUMN WITHIN THE NEAR FUTURE

Given the present condition of the column's surface, physical handling will inevitably result in some level of damage to the surface. Already, there is damage to the surface, some from the time of exposure on site after workers wrote on the column, and some from the move to JFK. Although the people involved in the move were very careful, it was almost impossible to avoid some level of damage in the process of handling and transporting the column to JFK. Even to move the column one more time to another part of the hangar requires careful planning as to where to place supports, etc.

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To reduce risk of damage in the future when the column is moved, a number of steps must be taken.

- All attached materials such as pictures and posters must be removed, and a system must be devised for their temporary reattachment (either of original materials or reproductions – further described below).
- All loose areas of paint will require some measure of consolidation.
- Locations where the column will be handled must be carefully determined so that surface abrasion from support elements will not damage critical or "at risk" surfaces.

When the column is moved specifically for the purpose of being placed on exhibition, there is a question of how it will be supported. Is it enough to exhibit it flat or must it be exhibited vertically? If so, some type of support must be designed to handle the weight and stabilize a column weighing over 60 tons. The nature of attachment is complicated by the fact that there is an enormous amount of graffiti at the base of the column.

All these provisions to prepare the column for exhibition will take a substantial amount of time and expense. It is unlikely that all this work can be carried out within the short span of 2-3 weeks. The issue of preparing the column for exhibition is further complicated by the possible need to decontaminate it. It will be impossible to determine how to do some of the surface conservation work until it is determined that the column requires decontamination.

FUTURE CONDITIONS OF EXHIBITION

Much of the graffiti markings and the attached paper and decals are susceptible to damage from water, light, extreme or rapid changes in temperature, extreme humidity conditions, etc. Some attached objects such as color photocopies or laser prints already show extensive damage from light. Some of the painted areas were applied to rusted surfaces or on parts of the rust protective paint layer and are starting to detach from the base metal (see attached photographs). These types of damage will continue in an uncontrolled environment, whether indoors or outside, but most particularly, in an unprotected outdoor environment. Therefore, we strongly recommend that the column not be exhibited outdoors under any circumstance.

Even when exhibited indoors, there is a concern about exposure to a high humidity environment and rust formation. Excessive exposure to light for an extended period of time is also a concern. Even if the attached ephemera such as paper-based artifacts are removed and replaced with reproductions, some of the original writing on the column is probably made with light sensitive colors that will fade over time if exposed to a high level of light.

Dirt deposited on the surface is a potential problem. Some of the spray paint may be slightly tacky, and will become more so if it gets hot, and will be a magnet for dirt. Discoloration from dirt, and damage resulting from dirt removal must be avoided. Another concern is security – protection against intentional damage or theft of attached objects, as well as unintentional damage from the public touching and thereby damaging painted surfaces.

Prior to the redisplay of the column, all attached paper objects must be removed, rehoused, and a safer system of reattachment must be developed for them to be placed back on the column. If the column will be displayed in an uncontrolled interior space, consideration should be given to using

high quality reproductions and displaying the originals in a safer, controlled context, such as an environmentally controlled exhibition case.

DECONTAMINATION

Because of the unique surface of this column, and the importance of avoiding damage to the graffiti, special precautions should be taken to avoid any surface damage as a result of decontamination.

- Pre-testing prior to cleaning must be carried out to determine whether this column requires a decontamination procedure and, if required, how intensively should it be cleaned.
- It is critical to know in advance precisely what decontamination method will be used. Knowing the selected method will allow us to evaluate the procedure to ensure that it will not endanger anything on the column.
- There are many areas of column graffiti that will be damaged from extended exposure to water, especially when combined with the physical action of wiping or moderate pressure power washing. Specifically, something as important as the "Murf" inscription on the side of the column (see photograph) will be damaged because it is written on a soft, poorly consolidated ground layer. In fact, this inscription already exhibits extensive damage. Further damage will destroy a critical aspect of the column's power as a historical marker and memorial. Depending on the cleaning method selected, it will be necessary to avoid all these extremely vulnerable areas.
- Although all the photographs and posters will be removed, it may be difficult to remove the decals without damaging them, especially in the brief time frame available.
- From the perspective of preserving the column's graffiti over the long term, we do not recommend the application of an encapsulating resin. If, for reasons of health and safety, an isolating resin must be applied, the option and choice of resin must be carefully considered. Over the last hundred years, many objects have been damaged by the injudicious application of a resin coating that was intended to protect the surface.

For all the reasons described above, it is important to determine if the column should be decontaminated by pre-testing. A decontamination method should be selected that minimizes risk to the surface. Treatment of very delicate areas should be avoided entirely, especially if there is no evidence of contamination. In order to do a safe treatment, we recommend that the conservation team in conjunction with the team that will do the decontamination carry out some initial test cleaning together prior to the actual work so that a mutually satisfactory procedure can be developed.

PHOTO DOCUMENTATION

Several types of photo documentation of the column are essential.

- Initial photo documentation, both by Voorsanger & Associates and APS, provide an overall level of documentation of the three visible surfaces, with details of examples of damaged surfaces. When the column is moved, the underside must be photographed.
- Prior to removal of any applied items such as the photographs, decals, etc., a careful record of their position must be recorded so that these objects can be precisely relocated

on the column in the future. At the time of removal, additional photo documentation will be required in addition to the existing photo record. A comprehensive and detailed record of all damaged surfaces must be photographed as part of a detailed conservation survey of the column. The conservator can take both types of conservation record photography.

- Detailed photographs should be made of all the graffiti that can be used to track down some of the "authors" in order to record their verbal history in case this is of interest. If the existing photo record is not sufficiently clear, supplementary photography must be undertaken for this purpose.
- It may be desirable to take high quality professional images of the column, since it is not recommended that the column itself be loaned or moved unnecessarily. These images could be used in lieu of the column to meet potential requests for the column's loan.

CONSERVATION CONDITION REPORT

Standard museum protocol requires a conservation record of the condition of an object at the time that it is acquired or loaned. From both a historical and a liability perspective, this record allows us to track the condition of an object, and to ensure its long-term preservation and stability. Such a record is also essential as a preliminary step in the conservation treatment of an object.

In general, the condition of the column must be carefully surveyed to understand the long-term preservation issues. For example, how well is the graffiti adhered to the column? How extensive are the soft powdery or rusted surfaces or painted layers that are at risk of detachment? These questions of condition have a special immediacy if the column will require decontamination or will be exhibited in a harsh indoor environment. The survey will require both solubility testing and an evaluation of the level of surface adhesion.

REMOVAL OF PAPER BASED ARTIFACTS

As previously discussed, all paper based objects and other added items should be removed while the column is in storage, and most especially, prior to any decontamination work. Otherwise, the risk of damage to these relatively fragile items is very great. There are approximately 80 applied objects on all surfaces of the column.

- At a minimum, remove all detachable photographs and paper items. The removal of these items cannot take place until their location is fully documented so that they can be relocated in exactly the same position in the future.
- Make high-resolution duplicates of all removed items. Save one set of duplicates and the associated digital file as a reference for the future. Another set can be used as a replacement for the originals, depending on the context of how, where, and for how long the column may be placed on exhibition.
- After removing all "ephemera", carefully survey their condition. Remove tape and other materials that will cause damage to the paper surface. Place the original materials in an environmentally controlled area, separate from the column.
- Design a method for redisplaying either the original materials or the duplicates on the column in a manner that replicates the original appearance. "Original" is a relative term and some level of curatorial interpretation is required. For example, were most of the pictures applied with wire or tape as a spontaneous act, and was the application of

duct tape and protective plastic applied later to protect them? If so, which part of the history should be recaptured when the column is placed on public display?

- A method for exhibiting the removed artifacts must take into account the likelihood that they may, at times, be reattached to the column and be exhibited in a poorly controlled environment.
- The method of attachment of these objects to the column must allow for their easy removal and reattachment without damage either to the column surface or to the artifact.
- A number of the paper-based objects already show extensive fading from light. At the very least, there should be some selectivity in terms of what may be reattached to the column for display and when to use reproductions.

CONCLUSION

We understand that there will be ceremonies throughout the country, and especially at Ground Zero, on September 11, 2002. Rather than subjecting this column to further damage by placing it on immediate display, a possible alternative would be to create a full-scale photomontage of the column that can be used as part of the Memorial Ceremony. Not only would it be more feasible then preparing the column in the short period of time remaining, but also it would ensure the preservation of the column for future generations.

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August 22, 2002

IMMEDIATE RECOMMENDATIONS REGARDING THE LAST COLUMN

The surface of the Last Column is covered with an extensive amount of graffiti. Much of it was applied to a rust protective paint layer that is lifting off the surface, or was applied directly to the rusted metal surface of the column. Some of the signatures and writing were done with magic markers. Other writing was done on concrete surfaces. In many instances, these writing are already showing extensive signs of damage from their exposure outdoors, as is illustrated in the attached photos.

If the column is cleaned, either through power washing or through hand washing, there will be further damage to the column inscriptions. Specifically, something as important as the "Murf" inscription on the side of the column will be damaged because it is written on a soft, poorly consolidated ground layer. In fact, this inscription already exhibits extensive damage. Even with the removal of all paper items, any decontamination procedure *will cause irreparable damage* to the column's surface.

Since the column was exposed outdoors for an extended period of time, there is no longer any obvious evidence of extensive asbestos contamination. Must it be decontaminated? Where is the problem? What must be removed – and how should it be removed? If there is no compelling reason to decontaminate this column given its singular importance, is it necessary to place its unique surface at such risk? For these reasons, we recommend the following:

- Pre-testing prior to cleaning must be carried out to determine whether this column requires a decontamination procedure and, if required, it must be determined how intensively it should be cleaned. Is a small trace amount of asbestos fiber sufficient on one tested area sufficient to require a total decontamination procedure? It is important to know what procedure will be used to evaluate the problem.
- If the tests confirm that there is some level of contamination that warrants a decontamination procedure, it is critical to know in advance precisely what decontamination method will be used. Knowing the selected method will allow us to evaluate the procedure to ensure that it will not endanger anything on the column. There are many areas of column graffiti that will be damaged from extended exposure to water, especially when combined with the physical action of wiping or moderate pressure power washing.
- From the perspective of preserving the column's graffiti over the long term, the application of an encapsulating resin must not be used. Over the last hundred years, many objects have been damaged by the injudicious application of a resin coating that was intended to protect the surface.

THE PORT AUTHORITY OF NY & NJ

WTC ARCHIVE INTERIM STORAGE FACILITY, JFK INTERNATIONAL AIRPORT
PRELIMINARY INVENTORY REPORT

Prepared by:
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August 13, 2002

Voorsanger & Associates
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246 West 38th Street
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Tel: 212-302-6464
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Port Authority WTC Artifact Preservation Project
Re: Issues & Concerns for the Last Column

Photo Documentation

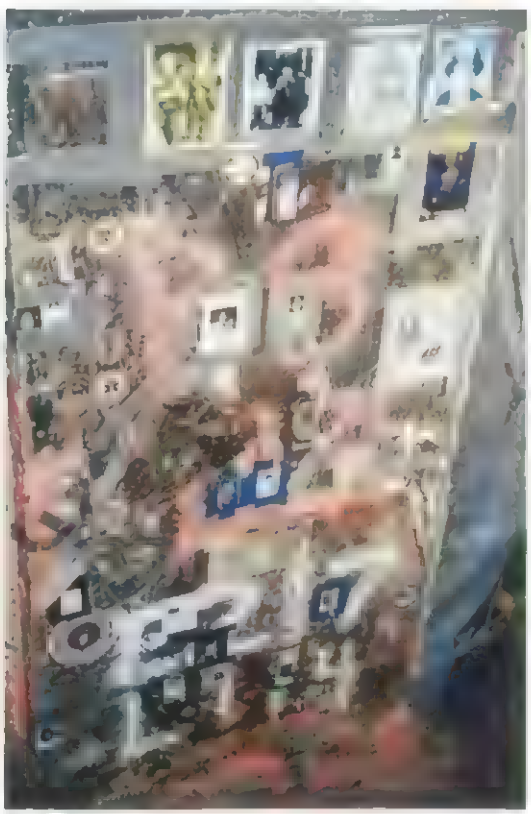

Image 1
Complex Montage of Writings, Images, Attached Decals and Photographs, Flowers, Showing Complex Nature and Layers of Information.

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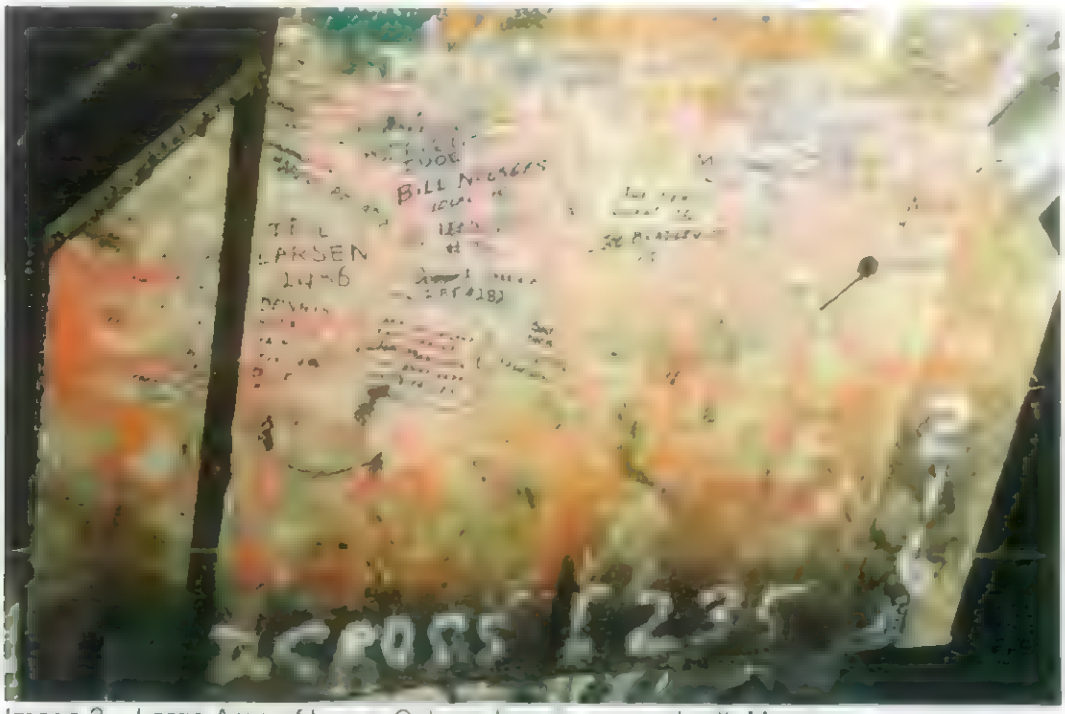

Image 2 – Large Area of Lower Column heavily covered with Markings

Image 3 – Evidence of Large Areas of Fragile Rust Under Paint

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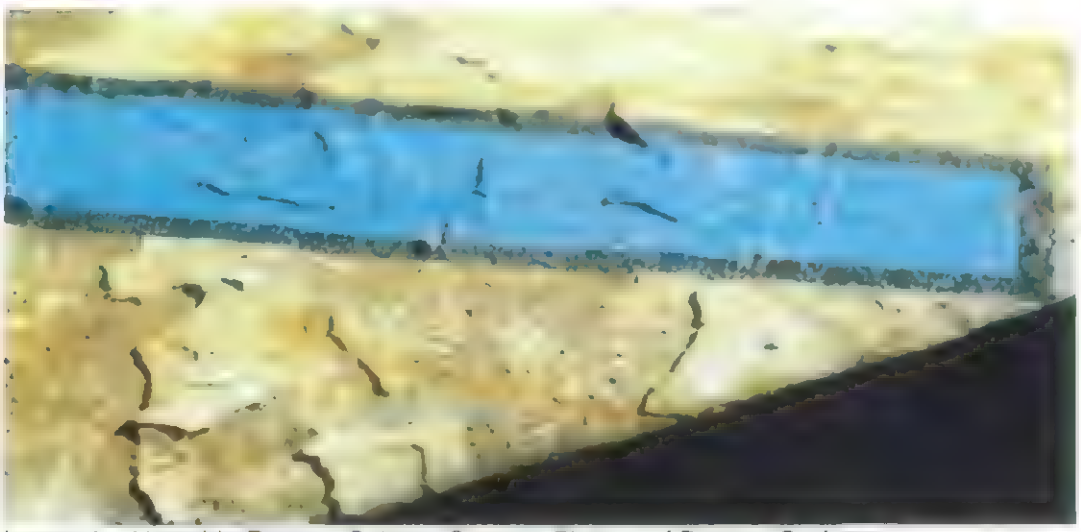

Image 4 – Unstable Rust on Column Causing Flaking of Painted Surfaces

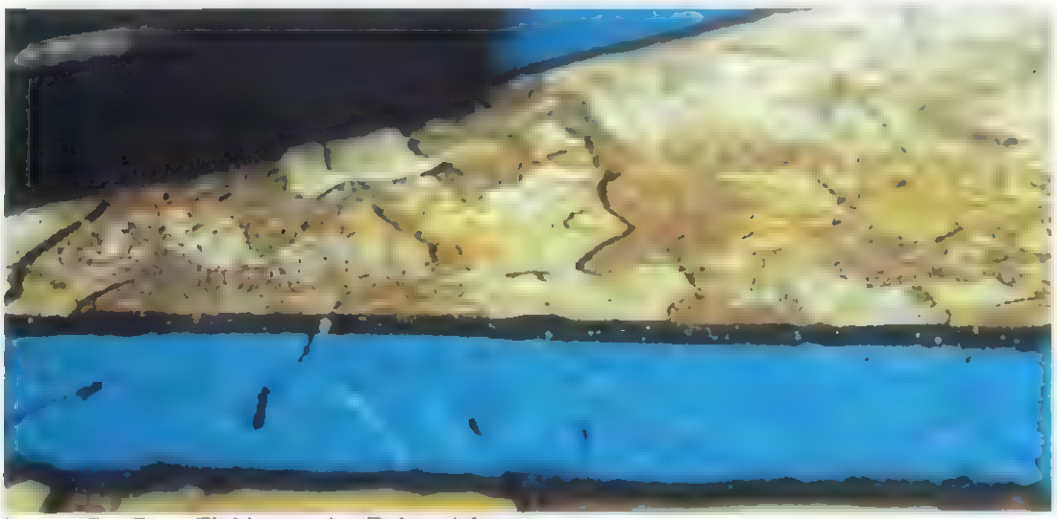

Image 5 – Rust Flaking under Painted Areas

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Image 6 – Flaking of Painted Lettering

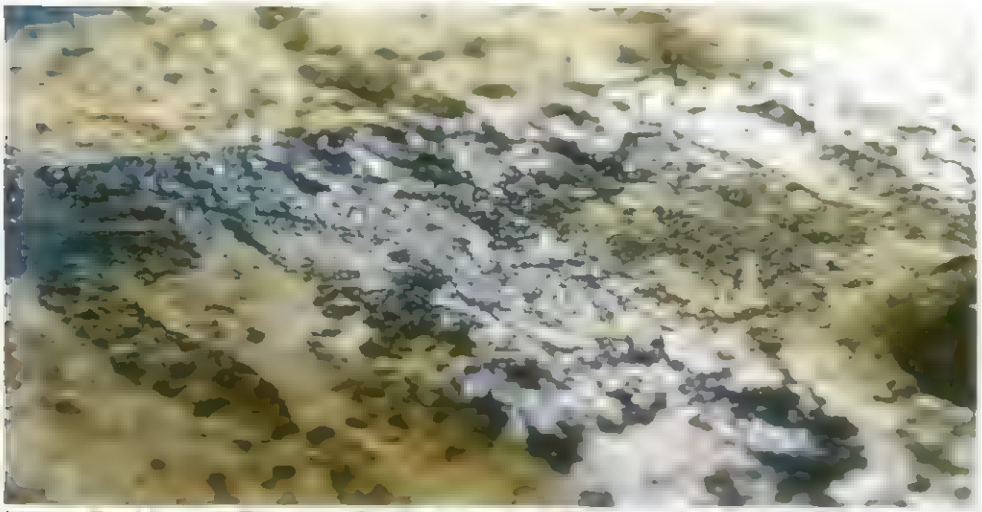

Image 7 – Uneven Powdery Surface Layer of Column Underneath Paint Layers & Accompanying Losses

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Image 8 – Uneven Surface Layer of Column Promoting Destabilization of Paint

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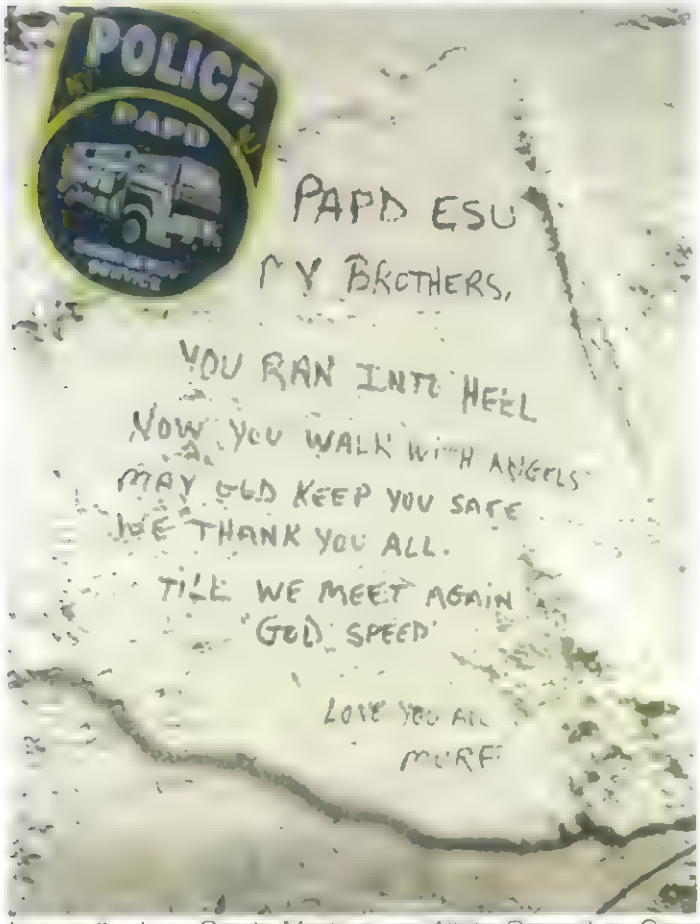

Image 9 – Low Grade Marking on White Ground on Concrete with High Potential for Further Loss

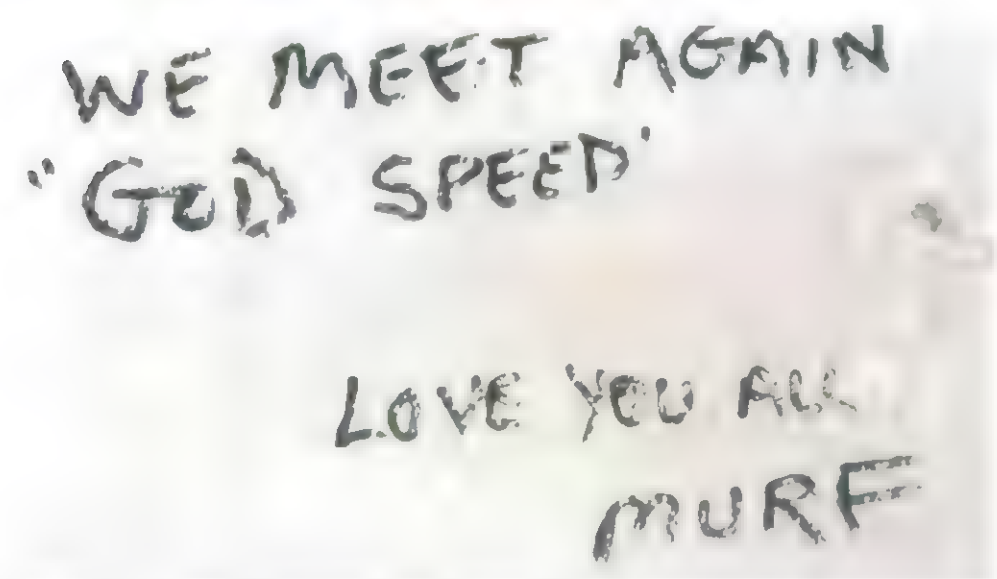

Image 10 – Loss of Markings from Personal Writings

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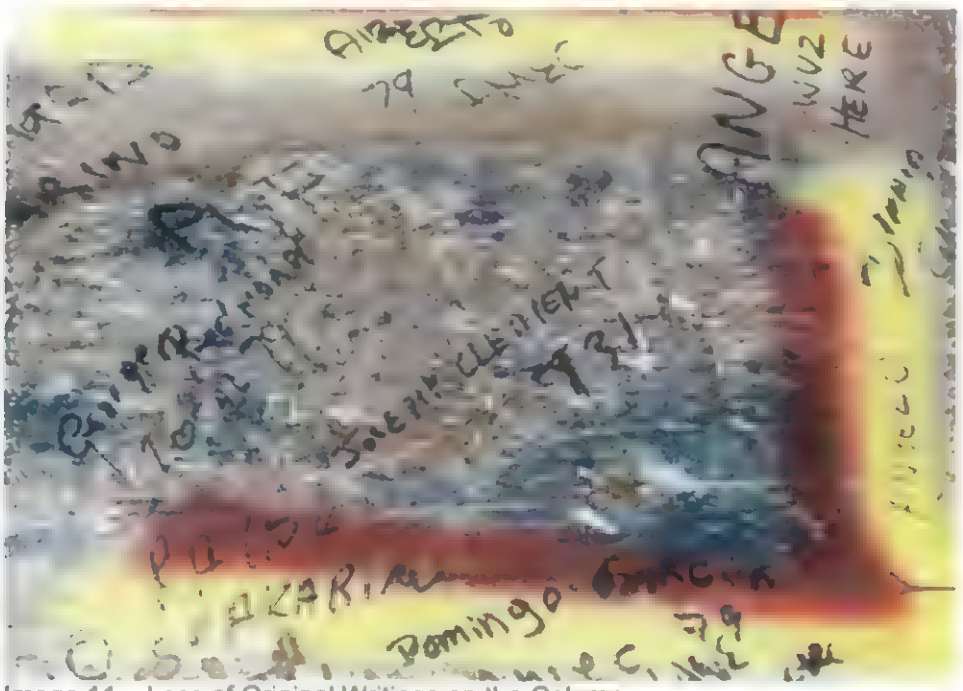

Image 11 – Loss of Original Writings on the Column

Prepared by
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Image 12 – Extensive Light and Water Damage

Prepared by
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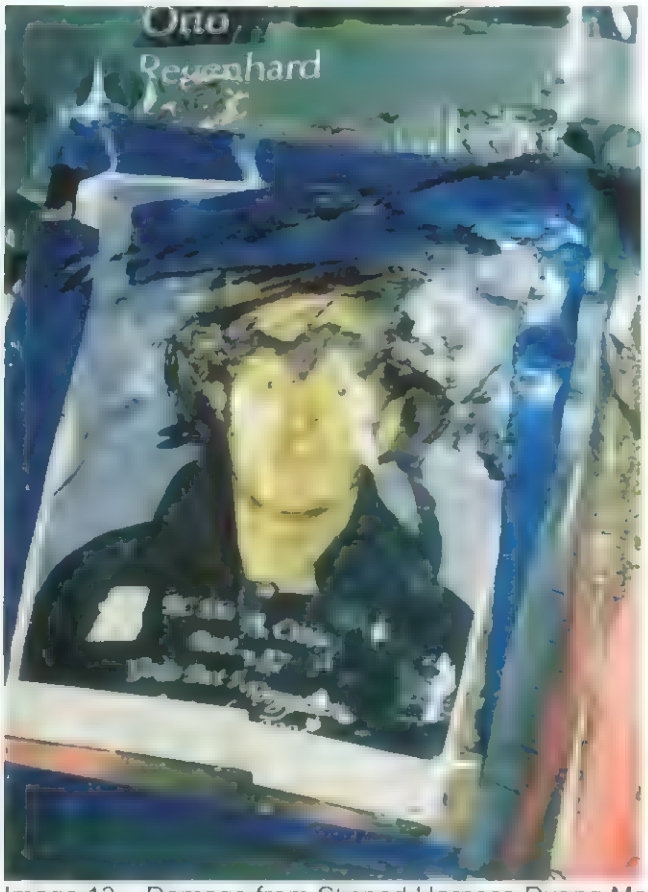

Image 13 – Damage from Slipped Harness During Move of Column

Image 14 – Underneath Column Extensive Montage of Attached Images and Writings

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Image 15 – Underneath Column Large Array of Items and Large Number Detached

Image 16 – Fragile Semi-detached Items Underneath Column

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October 22, 2002

Mark Wagner
Voorsanger & Associates Architects, PC
246 West 38th Street
New York, NY 10018

Dear Mark,

The decontamination contractor provided me with an encapsulant material, *GE-MPE Multi-Purpose Encapsulant*, manufactured by Global Encasement, Inc.

The encapsulant is a water-base acrylic polymer emulsion. At the time of the August 7, 2002 meeting held at the PA offices with PA staff and yourselves to discuss treatment of the Last Column, I recommended that the Last Column not be encapsulated with a resin. The sole purpose of the material was to consolidate areas of loose paint that may be contaminated with asbestos in order to preserve the original graffiti-covered surface of the Last Column. It was only to be used if there was a risk of loss or damage to the paint layer during the process of decontamination. If there were no risk, the resin would not be applied.

The purpose of the encapsulant is to isolate and render harmless any asbestos contaminated surfaces that cannot be otherwise abated. With regard to the treatment of other materials such as the other steel member and the vehicles, we do not recommend that these objects be treated with the encapsulant if the objects are not contaminated (i.e. they have been decontaminated or have been evaluated as not being contaminated).

The collected artifacts will be part of an historical collection. As such, it would be inappropriate to cover them with a plastic resin that will radically alter their appearance and historical condition. Subsequent removal of such a resin would be very difficult, time consuming, require an enormous amount of solvent, and would put original consolidated surfaces at risk. Covering moisture sensitive objects with the encapsulant is not a practical solution for protecting these artifacts from environmental damage. In the long run, the most cost-effective solution is to provide adequate physical protection through the control of the environment in which the objects are placed.

Submitted by,

Steven Weintraub

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II. OBJECT INVENTORY

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SECTION B: Objects Stored Off Site
B-1000: Structural Steel

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
B-1001	Steel Spandrel (part)	8ft.L x 6ft.W x 9in.H	1
B-1002	Steel Spandrel (part)	8ft.L x 6ft.W x 9in.H	1
B-1003	Steel Column (part)	7ft.L x 4ft.6in.W x 2ft.H	1
B-1004	Steel I-Beam	35ft.L x 8ft.W x 2ft.H	1
B-1005	Steel I-Beam	20ft.L x 8ft.W x 5ft.H	1
B-1006	Steel I-Beam	20ft.L x 4ft.W x 4ft.H	1
B-1007	Part of Structural Triad (part)	20ft.L x 3ft.W x 3ft.H	1
B-1008	Steel Column	12ft.L x 7ft.W x 2ft.H	1
B-1009	Steel Box Beam	22ft.L x 4ft.W x 5ft.H	1
B-1010	Steel Box Column	12ft.L x 5ft.W x 2ft.6in.H	1
B-1011	Steel Column	14ft.L x 5ft.W x 4ft.H	1
B-1012	Steel Box Beam	14ft.L x 2ft.6in.W x 3ft.4in.H	1
B-1013	Steel Box Beam	10ft.L x 2ft.6in.W x 3ft.4in.H	1
B-1014	Steel Box Beam	10ft.L x 2ft.6in.W x 3ft.4in.H	1
B-1015	Steel Box Beam	10ft.L x 2ft.6in.W x 3ft.4in.H	1
B-1016	Steel Column	20ft.L x 4ft.6in.W x 2ft.H	1
B-1017	Exterior Column with Spandrel	16ft.L x 7ft..W x 2ft.H	1
B-1018	Steel Box Column	10ft.L x 2ft.6in.W x 3ft.4in.H	1
B-1019	Built up Steel Box Beam	8ft.L x 3ft.W x 3ft.4in.H	1
B-1020	Steel Column	24ft.L x 3ft.W x 7ft.H	1
B-1021	Steel Column	24ft.L x 3ft.W x 5ft.H	1
B-1022	Steel I-Beam	12ft.L x 12ft.W x 2ft.H	1
B-1023	Structural Triad	50ft.L x 11ft.W x 3ft.H	1
B-1024	Prefabricated Exterior Wall Section	32ft.L x 10ft.W x 2ft.H	1
B-1025	Steel I-Beam	14ft.L x 1ft.6in.W x 2ft.H	1
B-1026	Steel I-Beam	14ft.L x 3ft.W x 1ft.2in.H	1
B-1027	Steel I-Beam	20ft.L x 2ft.W x 1ft.2in.H	1
B-1028	Steel I-Beam	10ft.L x 2ft.11in.W x 1ft.6in.H	1
B-1029	Steel I-Beam	17ft.L x 2ft.W x 1ft.2in.H	1
B-1030	Steel I-Beam	19ft.L x 3ft.W x 2ft.H	1
B-1031	Steel I-Beam	16ft.L x 2ft.W x 4ft.H	1
B-1032	Steel I-Beam	26ft.L x 5ft.W x 2ft.H	1
B-1033	Steel I-Beam	12ft.L x 2ft.4in.W x 1ft.6in.H	1
B-1034	Steel I-Beam	20ft.L x 2ft.10in.W x 1ft.6in.H	1
B-1035	Steel I-Beam	14ft.L x 4ft.W x 3ft.H	1
B-1036	Steel I-Beam	11ft.L x 2ft.W x 2ft.H	1
B-1037	Steel I-Beam	20ft.L x 4ft.W x 4ft.H	1
B-1038	Steel I-Beam	9ft.L x 2ft.9in.W x 1ft.H	1

***Recommendations for Decontamination: Decontamination Categories shall be defined as:**

1	FULL DECONTAMINATION: remove contaminants by standard methods
2	Detailed photography followed by FULL DECONTAMINATION
3	**CONTROLLED DECONTAMINATION**: See Catalog for details.
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING**. See Catalog for details.

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B-1039	Steel I-Beam	14ft.L x 5ft.W x 4ft.H	**1**
B-1040	Structural Steel Beam	12ft.L x 5ft.W x 3ft.H	**1**
B-1041	Steel Plate	7ft.L x 5ft.W x 4ft.H	**1**
B-1042	Steel Plate	8ft.L x 3ft.W x 5ft.H	**1**
B-1043	Prefabricated Ext. Wall Module	35ft.L x 11ft.W x 2ft.H	**1**
B-1044	Prefabricated Ext. Wall Module	45ft.L x 11ft.W x 2ft.H	**1**
B-1045	Structural Steel Beam	5ft.L x 2ft.W x 2ft.H	**1**
B-1046	Prefab. Ext. Wall Module (PART)	15ft.L x 2ft.W x 2ft.H	**4**

SECTION B: Objects Stored Off Site
B-2000: Building Materials

Catalog Number	**Item**	**Dimensions** (illustrates max. volume required for storage)	**Decon. Category***
B-2001	Misc. Stone on wood Palette: (17) Grey ¾" Granite Planks, Long box containing Misc. pieces of Marble	5ft.L x 4ft. W x 2ft.H	**1**
B-2002	Misc. Stone on wood Palette: (10) Grey ¾" Granite Planks, Misc. pieces of Travertine, (4) Grey ¾" Granite Slabs	5ft.L x 4ft. W x 12ft.H	**1**
B-2003	Misc. Stone on wood Palette: Box of Misc. Pieces of Broken Travertine Slabs	5ft.L x 4ft. W x 2ft.H	**1**
B-2004	Misc. Stone on wood Palette: Misc. Pieces of Travertine Slab and Counter Tops	5ft.L x 4ft. W x 1ft.H	**1**
B-2006	Misc. Stone on wood Palette: (14) Grey ¾"Granite Slabs	5ft.L x 4ft. W x 2ft.H	**1**
B-2007	Misc. Stone on wood Palette: (24) Grey ¾" Granite Planks	5ft.L x 4ft. W x 1ft.6in.H	**1**
B-2008	Misc. Stone on wood Palette: Grey Marble Door Saddles, (8) Red 1-¼"Granite Slabs	5ft.L x 4ft. W x 2ft.H	**1**
B-2009	Misc. Stone on wood Palette: (15) Black 1-¼"Granite Slabs	5ft.L x 4ft. W x 1ft.6in.H	**1**
B-2010	Misc. Stone on wood Palette: (4) Red 5" thick Granite Stone	5ft.L x 4ft. W x 1ft.H	**1**
B-2011	Misc. Stone on wood Palette: (18±) Pink 1-¼"Granite Slabs	5ft.L x 4ft. W x 2ft.H	**1**
B-2012	Misc. Stone on wood Palette: (6+-) Grey ¾" Granite Slabs, (8) 1-¼"Granite Slabs	5ft.L x 4ft. W x 1ft.6in.H	**1**

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2	Detailed photography followed by FULL DECONTAMINATION
3	**CONTROLLED DECONTAMINATION** See Catalog for details
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING**. See Catalog for details

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SECTION B: Objects Stored Off Site
B-3000: Building Components

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
B-3001	North Tower Antenna	30ft.L x 3ft. Dia.	1
B-3002	North Tower Antenna	14ft.L x 3ft. Dia.	1
B-3003	North Tower Antenna	25ftL x 5ft.W x 5ft.H	1
B-3004	North Tower Antenna	18ftL x 5ft.W x 3ft.H	1
B-3005	North Tower Antenna	18ftL x 5ft.W x 2ft.H	1
B-3006	North Tower Antenna	10ftL x 10ft.W x 6ft.H	1
B-3007	North Tower Antenna	15ftL x 10ft.W x 10ft.H	1
B-3008	North Tower Antenna	22ft.L x 3ft. Dia.	1
B-3009	North Tower Antenna	15ftL x 7ft.W x 3ft.H	1
B-3010	North Tower Antenna	15ftL x 4ft.W x 3ft.H	1
B-3011	North Tower Antenna	25ftL x 6ft.W x 7ft.H	1
B-3012	North Tower Antenna	10ftL x 8ft.W x 7ft.H	1
B-3013	North Tower Antenna	12ft.L x 2ft. Dia.	1
B-3014	North Tower Antenna	14ftL x 8ft.W x 2ft.H	1
B-3015	North Tower Antenna	8ftL x 6ft.W x 2ft.H	1
B-3016	North Tower Antenna	14ft.L x 3ft. Dia.	1
B-3017	North Tower Antenna	20ft.L x 3ft. Dia.	1
B-3101	Elevator Motor	8ft.L x 5ft. Dia.	1
B-3102	Elevator Motor	3t.L x 1t.6in. Dia.	1
B-3103	Elevator Motor	8ft.L x 5ft. Dia	1
B-3104	Elevator Motor	3ft.L x 1ft.6in. Dia	1
B-3105	Elevator Motor	5ft.L x 3ft. Dia	1
B-3106	Elevator Motor	4ft.L x 2ft. Dia	1
B-3107	Elevator Motor	6ft.L x 4ft. Dia	1
B-3108	Elevator Motor	6ft.L x 5ft. Dia	1
B-3109	Elevator Motor	6ft.L x 4ft. Dia	1
B-3110	Elevator Motor	6ft.L x 5ft. Dia	1
B-3111	Elevator Cab Floor Platform	7ftL x 5ft.W x 3ft.H	1
B-3151	Flag Pole	60ft.L x 1ft. Dia	1
B-3152	Flag Pole	60ft.L x 1ft. Dia	1
B-3153	Flag Pole	60ft.L x 1ft. Dia	1
B-3154	Flag Pole	60ft.L x 1ft. Dia	1
B-3155	Flag Pole	60ft.L x 1ft. Dia	1
B-3176	PATH Station Turn style	5ftL x 3ft.W x 4ft.H	1
B-3177	PATH Station Turn style	5ftL x 3ft.W x 4ft.H	1
B-3178	PATH Station Turn style	5ftL x 3ft.W x 4ft.H	1
B-3201	Subway Sign—Cortland WTC	5ftL x 5ft.W x 7ft.H	1
B-3202	Signage "PATH to New Jersey"	10ft.L x 1ft.6in.W x 1in.H	1
B-3203	Signage "Morgan Stanley"	10ft.L x 1ft.6in.W x 1in.H	1
B-3204	Signage "5 World Trade Center"	10ft.L x 1ft.6in.W x 1in.H	1

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B-2013	Misc. Stone on wood Palette: Miscellaneous Travertine Pieces	5ft.L x 4ft. W x 2ft.H	1
B-2014	Misc. Stone on wood Palette: Grey & Red 1-¼"Granite Slabs	5ft.L x 4ft. W x 2ft.H	1
B-2015	Misc. Stone on wood Palette: Grey Granite, Travertine, Grey Marble—Miscellaneous Sizes	8ft.L x 4ft. W x 1ft.6in.H	1
B-2016	Misc. Stone on wood Palette: Grey Marble and Travertine—Misc. Sizes and Thickness	8ft.L x 4ft. W x 1ft.6in.H	1
B-2017	Misc. Stone on wood Palette: Grey Marble and Travertine—Misc. Sizes and Thickness	8ft.L x 4ft. W x 1ft.6in.H	1
B-2018	Misc. Stone on wood Palette: Grey, Pink and Red Granite—Miscellaneous Sizes	5ft.L x 4ft. W x 1ft.H	1
B-2019	Misc. Stone on wood Palette: (12) Pink 1-¼" Granite Slabs	5ft.L x 4ft. W x 2ft.H	1
B-2020	Misc. Stone on wood Palette: ¾" Travertine Planks Misc. Widths and 72in.L	6ft.L x 3ft. W x 1ft.6in.H	1
B-2021	Misc. Stone on wood Palette: (9±) ¾" Travertine Planks	8ft.L x 4ft. W x 1ft.6in.H	1
B-2022	Misc. Stone on wood Palette: (12) Grey Marble Saddles—60in.L Grey 1-¼" Marble Slab 5 Grey 1-¼" Marble Slabs	8ft.L x 4ft. W x 2ft.H	1
B-2023	(2) Plastic Planters Full of Misc. Travertine	5ft.L x 4ft. W x 2ft.H	1
B-2101	Aluminum Cladding—(40±) Pieces *NOTE: Due to the inaccessibility of each individual item catalog numbers B-2101 through B-2200 have been reserved for all miscellaneous aluminum cladding. Items will be individually numbered after decontamination.	15ft.L x 8ft.W x 6ft.H	1

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2	Detailed photography followed by FULL DECONTAMINATION
3	**CONTROLLED DECONTAMINATION**: See Catalog for details.
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING**. See Catalog for details.

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B-3205	Signage	12ftL x 4ft.W x 2ft.H	4
B-3206	Signage	12ftL x 4ft.W x 2ft.H	4
B-3207	Signage	12ftL x 4ft.W x 2ft.H	4
B-3208	Signage	12ftL x 4ft.W x 2ft.H	4
B-3209	Signage	8ftL x 5ft.W x 3ft.H	1
B-3210	Signage	12ftL x 4ft.W x 2ft.H	1
B-3211	Signage	9ftL x 1ft.W x 1ft.H	1
B-3212	Signage	20ftL x 5ft.W x 4ft.H	4
B-3213	Signage	1.5ftL x 1.5ft.W x 3in.H	1
B-3214	Signage	1.5ftL x 1.5ft.W x 3in.H	1
B-3501	Pre-cast Planter	5ft. Diameter	1
B-3502	Pre-cast Bench	5ftL x 2ft.W x 2ft.H	1
B-3503	Pre-cast Bench	5ftL x 2ft.W x 2ft.H	1
B-3504	Pre-cast Bench	5ftL x 2ft.W x 2ft.H	1
B-3505	Pre-cast Bench	5ftL x 2ft.W x 2ft.H	1
B-3506	Wood Create / Misc. Metals	3ftL x 3ft.W x 5ft.H	5

SECTION B: Objects Stored Off Site
B-4000: Vehicles

Catalog Number	Item	**Dimensions** (illustrates max. volume required for storage)	Decon. Category*
B-4001	PATH Train Car #745	45ft.L x 9ft.W x 14ft.H	5
B-4002	PATH Train Car #143	45ft.L x 9ft.W x 14ft.H	5
B-4003	Motorcycle	8ft.L x 3ft.W x 2ft.H	5
B-4004	FDNY Ambulance	8ft.L x 10ft.W x 9ft.H	5
B-4005	PAPD CAD Pool Car #52320	15ft.L x 8ft.W x 9ft.H	5
B-4006	PAPD K-9 Unit Car #53470	12ft.L x 6ft.W x 5ft.H	5
B-4007	Civilian Car	12ft.L x 6ft.W x 3ft.H	5
B-4008	Civilian Car	10ft.L x 6ft.W x 4ft.H	5
B-4009	Civilian Car	13ft.L x 7ft.W x 3ft.H	5
B-4010	NYC Taxi #6L95	16ft.L x 7ft.W x 5ft.H	5
B-4011	FDNY Vehicle	18ft.L x 8ft.W x 6ft.H	5
B-4012	FDNY #9S99004	16ft.L x 7ft.W x 5ft.H	5
B-4013	FDNY Ladder Truck—Fort Pitt	40ft.L x 8ft.W x 10ft.H	5
B-4014	FDNY Ladder Truck	36ft.L x 10ft.W x 12ft.H	5
B-4015	Fire Truck Ladder	26ft.L x 5ft.W x 5ft.H	5
B-4016	Sheet Metal—Part of Fire Truck	7ft.L x 6ft.W x 4ft.H	5
B-4017	Front Axle of FDNY Truck	11ft.L x 6ft.W x 4ft.H	5
B-4018	FDNY Squad Car	26ft.L x 8ft.W x 10ft.H	5
B-4019	FDNY Truck #21	26ft.L x 8ft.W x 10ft.H	5
B-4020	Car—Office of Chief Medical Examiner	18ft.L x 8ft.W x 7ft.H	5
B-4021	PAPD Van	18ft.L x 7ft.W x 7ft.H	5

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3	**CONTROLLED DECONTAMINATION** See Catalog for details
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING**. See Catalog for details

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B-4022	PAPD Car	18ft L x 7ft W x 5ft H	5
B-4023	PAPD Car	18ft L x 7ft W x 5ft H	5
B-4024	PAPD Car—Unmarked	18ft L x 7ft W x 5ft H	5
B-4025	PAPD Car—Unmarked	18ft L x 7ft W x 5ft H	5
B-4026	PAPD Car –Unmarked	16ft L x 7ft W x 5ft H	5
B-4027	PAPD Car #53500	16ft L x 6ft W x 7ft H	5
B-4028	Civilian Car	13ft L x 6ft W x 6ft H	5
B-4029	PAPD #53850	12ft.L x 6ft.W x 6ft H	5
B-4030	Power Generator	6ft. L x 3ft. W x 4ft. H	1

SECTION B: Objects Stored Off Site
B-5000: North Tower Curtain Wall

Catalog Number	**Item**	**Dimensions** (illustrates max. volume required for storage)	**Decon. Category***
B-5001	Structural Triad	45ft.L x 10ft.W x 3ft.H	3
B-5002	Structural Triad	45ft.L x 10ft.W x 3ft.H	3
B-5003	Structural Triad	50ft.L x 10ft.W x 3ft.H	3
B-5004	Exterior Column with Spandrel	50ft.L x 10ft.W x 3ft.4in.H	3
B-5005	Exterior Column with Spandrel	50ft.L x 10ft.W x 3ft.4in.H	1
B-5006	Exterior Column with Spandrel	55ft.L x 10ft.W x 3ft.4in.H	3
B-5007	Exterior Column with Spandrel	55ft.L x 10ft.W x 3ft.4in.H	3
B-5008	Exterior Column with Spandrel	55ft.L x 10ft.W x 3ft.4in.H	3
B-5009	Exterior Column with Spandrel	42ft.L x 10ft.W x 3ft.H	3
B-5010	Exterior Column with Spandrel	48ft.L x 10ft.W x 3ft.4in.H	1
B-5011	Structural Triad	45ft.L x 10ft.W x 3ft.4in.H	3
B-5012	Structural Triad	40ft.L x 11ft.W x 3ft.H	3
B-5013	Structural Triad	40ft.L x 10ft.W x 3ft.H	3
B-5014	Structural Triad	48ft.L x 10ft.W x 3ft.H	3
B-5015	Structural Triad	50ft.L x 10ft.W x 3ft.H	3
B-5016	Structural Triad	40ft.L x 10ft.W x 3ft.H	3
B-5017	Structural Triad	28ft.L x 11ft.W x 3ft.H	3
B-5018	Structural Triad	28ft.L x 11ft.W x 3ft.H	3
B-5019	Structural Triad	26ft.L x 10ft.W x 3ft.H	3
B-5020	Structural Triad	35ft.L x 10ft.W x 3ft.H	1
B-5021	Structural Triad	44ft.L x 10ft.W x 3ft.H	1
B-5022	Exterior Column with Spandrel	26ft.L x 10ft.W x 3ft.H	1
B-5023	Exterior Column with Spandrel	26ft.L x 10ft.W x 3ft.H	1

*Recommendations for Decontamination: Decon. Categories shall be defined as:

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2	Detailed photography followed by FULL DECONTAMINATION
3	**CONTROLLED DECONTAMINATION**: See Catalog for details.
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING** See Catalog for details

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B-5024	Exterior Column with Spandrel	20ft.L x 10ft.W x 3ft.H	**1**
B-5025	Steel Column	20ft.L x 14ft.W x 3ft.H	**1**
B-5026	Structural Triad	20ft.L x 6ft.W x 3ft.H	**1**
B-5027	Structural Triad	14ft.L x 11ft.W x 3ft.H	**1**
B-5028	Exterior Column with Spandrel	22ft.L x 10ft.W x 3ft.H	**1**
B-5029	Structural Triad	12ft.L x 8ft.W x 3ft.H	**1**
B-5030	Steel Column	30ft.L x 3ft.W x 2ft.6in.H	**1**
B-5031	Steel Column	21ft.L x 2ft.6in.W x 3ft.H	**1**

SECTION B: Objects Stored Off Site
B-6000: Miscellaneous

Catalog Number	**Item**	**Dimensions** (illustrates max. volume required for storage)	**Decon. Category***
B-6001	Reinforced Concrete Column	18ft.L x 2ft.W x 2ft.H	**1**
B-6002	Reinforced Concrete Column from Parking Garage	14ft.L x 3ft.W x 3ft.H	**1**
B-6101	Processed Steel with Concrete (15±) Pieces *NOTE: Due to the inaccessibility of each individual item catalog numbers B-6101 through B-6150 have been reserved for all such pieces. Items will be individually numbered after decontamination.	Batch: 25ft.L x 14ft.W x 4ft.H	**1**
B-6151	Steel Exterior Column Section—part of 6152	4ft.L x 1ft.6in.W x 1ft.6in.H	**1**
B-6152	Processed Steel Ext. and Int. Col. Sections—30+-Pieces	Batch: 30ft.L x 10ft.W x 5ft.H	**1**
B-6201	Composite	10ft Dia X 4ft H	**5**
B-6201	Composite	10ft.L x 6ft.W x 5ft.H	**5**
B-6226	Steel Track	9ft.L x 4ft.W x 3ft.H	**1**
B-6227	Steel Track	4ft.L x 5ft.W x 1ft.H	**1**
B-6228	Steel Track	10ft.L x 7ft.W x 6ft.H	**1**
B-6501	Steel Re-Bar	5ft.L x 4ft..W x 1ft.6in.H	**1**
B-6502	Flattened Steel Pipe	16ft.L x 4ft.W x 1ft.6in.H	**1**
B-6503	Pipe—10in. Dia.	10ft.L x 7ft.W x 6ft.H	**1**

***Recommendations for Decontamination: Decon. Categories shall be defined as:**

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2	Detailed photography followed by FULL DECONTAMINATION
3	**CONTROLLED DECONTAMINATION**: See Catalog for details
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING**. See Catalog for details.

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SECTION B: Objects Stored Off Site
B-7000: Select Miscellaneous Debris

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
B-7001	Select Miscellaneous Debris *NOTE Due to the delicate nature of these items and the manner in which they are grouped tagging each individual item is not possible at this time Therefore if individual tagging is required at a later date catalog numbers B-7001 through B-7999 have been reserved for all items within this group	20ft L x 8ft W x 6ft H	5

SECTION B: Objects Stored Off Site
B-8000: Random Miscellaneous Steel: Originally being held for the Mayors Office, (now part of the PANYNJ Archive)

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
B-8001	Miscellaneous Steel Debris: *NOTE: Due to the inaccessibility of each individual item catalog numbers B-8001 through B-9999 have been reserved for all miscellaneous steel that was originally being held for the Mayors Office. Items will be individually numbered during the decontamination process. It is doubtful that Hanger 17 will have enough space to house these objects.	Undetermined At This Time	1

*Recommendations for Decontamination: Decon. Categories shall be defined as:

1	FULL DECONTAMINATION remove contaminants by standard methods
2	Detailed photography followed by FULL DECONTAMINATION
3	CONTROLLED DECONTAMINATION See Catalog for details
4	Detailed photography followed by CONTROLLED DECONTAMINATION
5	FRAGILE: REQUIRES SPECIAL CARE AND HANDELING See Catalog for details

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SECTION C: Commissioned Fine Art Objects
C-1000: WTC Public Art Collection

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
C-1001	Koenig "Sphere" Cast Bronze Sculpture @ Battery Park		
C-1002	Koenig "Sphere": Cast Bronze (part)	3ft.L x 1ft.6in.W x 9in.H	1
C-1003	Koenig "Sphere": Cast Bronze (part)	1ft.6in.L x 1ft.W x 1in.H	1
C-1004	Koenig "Sphere": Cast Bronze (part)	3ft.L x 3ft.W x 9in.H	1
C-1005	Koenig "Sphere": Cast Bronze (part)	5ft.L x 3ft.W x 9in.H	1
C-1006	Koenig "Sphere": Cast Bronze (part)	2ft. Dia. x 4in.H	1
C-1007	Koenig "Sphere": Interior Steel frame (part)	3ft.L x 2ft.W x 6in.H	1
C-1008	Koenig "Sphere": Interior Steel frame (part)	4ft.L x 1ft.6in.W x 6in.H	1
C-1009	Koenig "Sphere": Interior Steel frame (part)	4ft.L x 1ft.6in.W x 6in.H	1
C-1010	Koenig "Sphere": Interior Steel frame (part)	1ft.6in.L x 9in.W x 6in.H	1
C-1011	Koenig "Sphere": Interior Steel frame (part)	9in.L x 9in.W x 6in.H	1

SECTION D: Objects Memorialized by Salvage/Rescue Crews
D-1000: Memorials Constructed on Site

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
D-1001	Light Pole Used as Flagpole	32ft.L	1
D-1002	Steel Angel	18ft.L x 9ft.W x 6in.H	1
D-1101	Last Column	45ft. L x 7ft. W x 3ft. H	5

SECTION F: Social Content
F-1000: Paper

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
F-1001	Wood Create / Misc. Paper	3ftL x 3ft.W x 5ft.H	5

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2	Detailed photography followed by FULL DECONTAMINATION
3	**CONTROLLED DECONTAMINATION**: See Catalog for details.
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING**. See Catalog for details.

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SECTION F: Social Content
F-3000: Miscellaneous Social Representation

Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
F-3001	Bicycle Rack w/7 Bikes	10ft.L x 5ft.W x 5ft.H	1
F-3002	Bronze Memorial Plaque	30in. L x 20in. W x 2in H	1

SECTION X: Temporary
X-0000: Temporary Catalog Numbers

Temp. Catalog Number	Item	Dimensions (illustrates max. volume required for storage)	Decon. Category*
X-0001	Unknown Contents of Steel Waste Container	15ft L x 5ft W x 6ft.H	5
X-0002	Unknown Contents of Steel Shipping Container	15ft L x 6ft W x 9ft H	5

*Recommendations for Decontamination: Decon. Categories shall be defined as:

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3	**CONTROLLED DECONTAMINATION** See Catalog for details
4	Detailed photography followed by **CONTROLLED DECONTAMINATION**
5	**FRAGILE: REQUIRES SPECIAL CARE AND HANDELING** See Catalog for details

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SECTION B:
OBJECTS STORED OFF-SITE

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RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

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Section B-1000: Structural Steel

B-1001

Item: Steel Spandrel (part.)

Dimensions: 8ft.L x 6ft.W x 9in.H

Decontamination Notes:

Decontamination Category: **1**

P7300002.jpg

7/31/02

Section B-1000: Structural Steel

B-1002

Item: Steel Spandrel (part.)

Dimensions: 8ft.L x 6ft.W x 9in.H

Decontamination Notes:

Decontamination Category: **1**

P7310116.jpg

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Section B-1000: Structural Steel

B-1003

Item: Steel Column (part)

Dimensions: 7ft.L x 4ft..6in.W x 2ft.H

Decontamination Notes:

Decontamination Category 1

P7310118.jpg

7/31/02

Section B-1000: Structural Steel

B-1004

Item: Steel I Beam

Dimensions: 35ft.L x 8ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: 1

P7310121.jpg

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Section B-1000: Structural Steel

B-1005

Item: Steel I Beam

Dimensions: 20ft.L x 8ft.W x 5ft.H, Web=30in.x1/2"in. Flange=9in. x1/2in.

Decontamination Notes:

Decontamination Category: **1**

P1010006.jpg

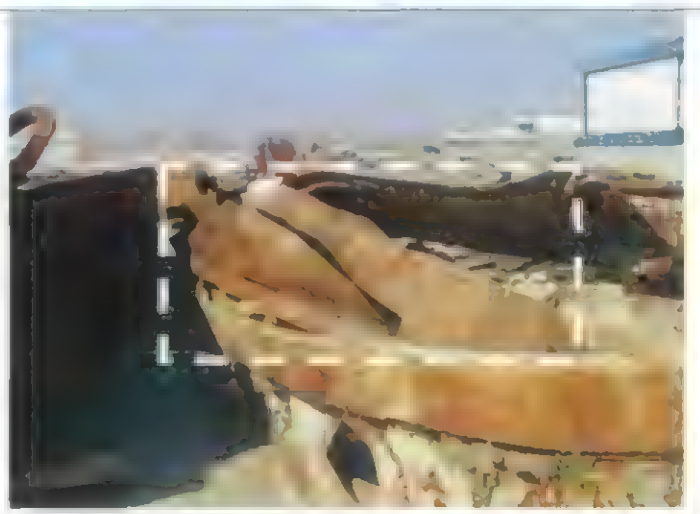
8/1/02

Section B-1000: Structural Steel

B-1006

Item: Steel I Beam

Dimensions: 20ft.L x 4ft.W x 4ft.H



Decontamination Notes:

Decontamination Category: **1**

P1010002.jpg

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Section B-1000: Structural Steel

B-1007

Item: Part of Structural Triad (part)

Dimensions: 20ft.L x 3ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: 1

P1010008.jpg

8/1/02

Section B-1000: Structural Steel

B-1008

Item: Steel Column

Dimensions: 12ft.L x 7ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: 1

P7310131.jpg

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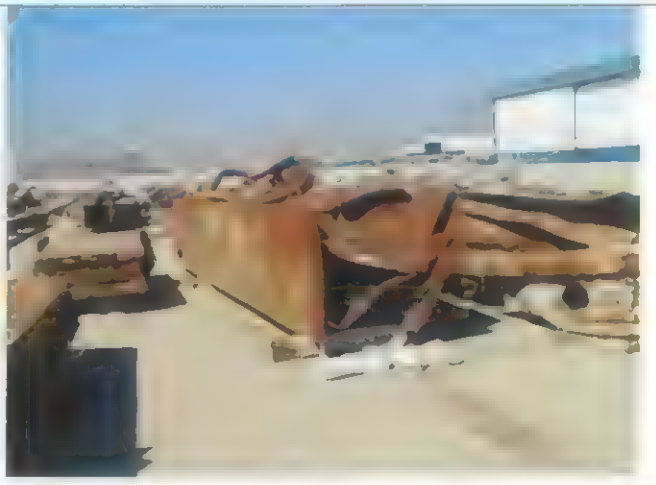
Section B-1000: Structural Steel

B-1009

Item: Steel Box Beam

Dimensions: 22ft.L x 4ft.W x 5ft.H



Decontamination Notes:

Decontamination Category: **1**

P7310135.jpg

7/31/02

Section B-1000: Structural Steel

B-1010

Item: Steel Box Column

Dimensions: 12ft.L x 5ft.W x 2ft.6in.H

Decontamination Notes:

Decontamination Category: **1**

P7310138.jpg

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Section B-1000: Structural Steel

B-1011

Item Steel Column

Dimensions: 14ft.L x 5ft.W x 4ft.H

Decontamination Notes:

Decontamination Category: **1**

P7310140 jpg

7/31/02

Section B-1000: Structural Steel

B-1012

Item: Steel Box Beam

Dimensions: 14ft.L x 2ft.6in.W x 3ft.4in.H

Decontamination Notes:

Decontamination Category: **1**

P7310142 jpg

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Section B-1000: Structural Steel

B-1013

Item: Steel Box Beam

Dimensions: 10ft.L x 2ft.6in.W x 3ft.4in.H

Decontamination Notes:

Decontamination Category: **1**

P7310144 jpg

7/31/02

Section B-1000: Structural Steel

B-1014

Item: Steel Box Beam

Dimensions: 10ft.L x 2ft.6in.W x 3ft.4in.H

Decontamination Notes:

Decontamination Category: **1**

P7310146 jpg

7/31/02

Section B-1000: Structural Steel

B-1015

Item: Steel Box Beam

Dimensions: 10ft.L x 2ft.6in.W x 3ft.4in.H

Decontamination Notes:

Decontamination Category: **1**

P7310148.jpg

7/31/02

Section B-1000: Structural Steel

B-1016

Item: Steel Column

Dimensions: 20ft.L x 4ft. 6in.W x 2ft.H

Decontamination Notes:

Decontamination Category: **1**

P7310150.jpg

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Section B-1000: Structural Steel

B-1017

Item: Exterior Column with Spandrel

Dimensions: 16ft.L x 7ft W x 2ft H

Decontamination Notes:

Decontamination Category: **1**

P7310153.jpg

7/31/02

Section B-1000: Structural Steel

B-1018

Item: Steel Box Column

Dimensions: 10ft.L x 2ft.6in.W x 3ft.4in.H

Decontamination Notes:

Decontamination Category: **1**

P7310155.jpg

7/31/02

Section B-1000: Structural Steel

B-1019

Item: Built up Steel Box Beam

Dimensions: 8ft.L x 3ft.W x 3ft.4in.H

Decontamination Notes:

Decontamination Category: **1**

P7310157.jpg 7/31/02

Section B-1000: Structural Steel

B-1020

Item: Steel Column

Dimensions: 24ft.L x 3ft.W x 7ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010032.jpg 8/2/02

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Section B-1000: Structural Steel

B-1021

Item: Steel Column

Dimensions: 24ft.L x 3ft.W x 5ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010035.jpg

8/2/02

Section B-1000: Structural Steel

B-1022

Item: Steel I Beam

Dimensions: 12ft.L x 12ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010039.jpg

8/2/02

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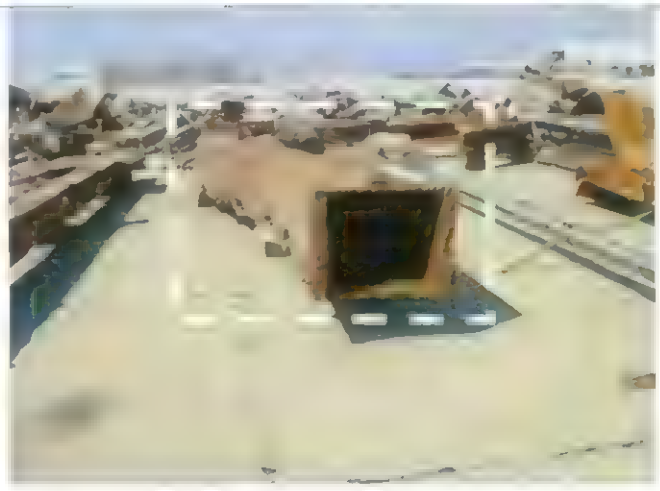
Section B-1000: Structural Steel

B-1023

Item: Structural Triad

Dimensions: 50ft.L x 11ft.W x 3ft.H



Decontamination Notes:

Decontamination Category: **1**

P1010044.jpg

8/2/02

Section B-1000: Structural Steel

B-1024

Item: Prefabricated Exterior Wall Section

Dimensions: 32ft.L x 10ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010051.jpg

8/2/02

Prepared by:
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Section B-1000: Structural Steel Item: Steel I-Beam Dimensions: 14ft.L x 1ft.6in.W x 2ft.H	**B-1025**
Decontamination Notes:	
Decontamination Category: **1**	P1010035.jpg 8/12/02

Section B-1000: Structural Steel Item: Steel I-Beam Dimensions: 14ft.L x 3ft.W x 1ft.2in.H	**B-1026**
Decontamination Notes:	
Decontamination Category: **1**	P1010037.jpg 8/12/02

THE PORT AUTHORITY OF NY & NJ

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Section B: Objects Stored Off Site

Prepared by
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Section B-1000: Structural Steel

B-1027

Item: Steel I-Beam

Dimensions: 20ft.L x 2ft.W x 1ft.2in.H

Decontamination Notes:

Decontamination Category: **1**

P1010039.jpg

8/12/02

Section B-1000: Structural Steel

B-1028

Item: Steel I-Beam

Dimensions: 10ft.L x 2ft.11in.W x 1ft.6in.H

Decontamination Notes:

Decontamination Category: **1**

P1010042.jpg

8/12/02

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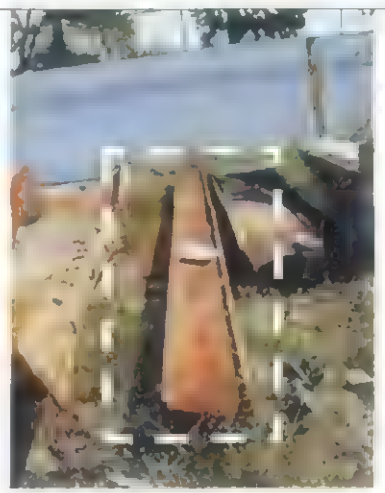
Section B-1000: Structural Steel	**B-1029**
Item: Steel I-Beam Dimensions: 17ft.L x 2ft.W x 1ft.2in.H	
	
Decontamination Notes:	
Decontamination Category. **1**	P1010044 jpg 8/12/02

Section B-1000: Structural Steel	**B-1030**
Item: Steel I-Beam Dimensions: 19ft.L x 3ft.W x 2ft.H	
Decontamination Notes:	
Decontamination Category: **1**	P1010046 jpg 8/12/02

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Section B-1000: Structural Steel

B-1031

Item: Steel I-Beam

Dimensions: 16ft.L x 2ft.W x 4ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010052 jpg

8/12/02

Section B-1000: Structural Steel

B-1032

Item: Steel I-Beam

Dimensions: 26ft.L x 5ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010054 jpg

8/12/02

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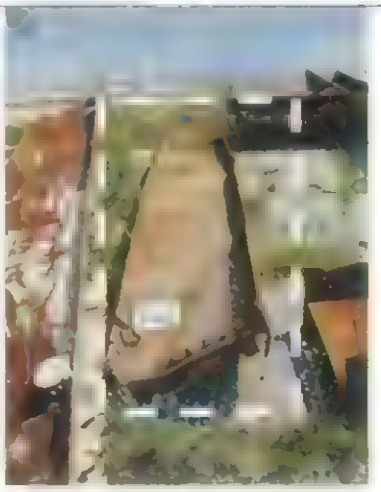
Section B-1000: Structural Steel

Item: Steel I-Beam

Dimensions: 12ft.L x 2ft.4in.W x 1ft.6in.H

B-1033



Decontamination Notes:

Decontamination Category: **1**

P1010056.jpg

8/12/02

Section B-1000: Structural Steel

Item: Steel I-Beam

Dimensions: 20ft.L x 2ft.10in.W x 1ft.6in.H

B-1034

Decontamination Notes:

Decontamination Category: **1**

P1010060.jpg

8/12/02

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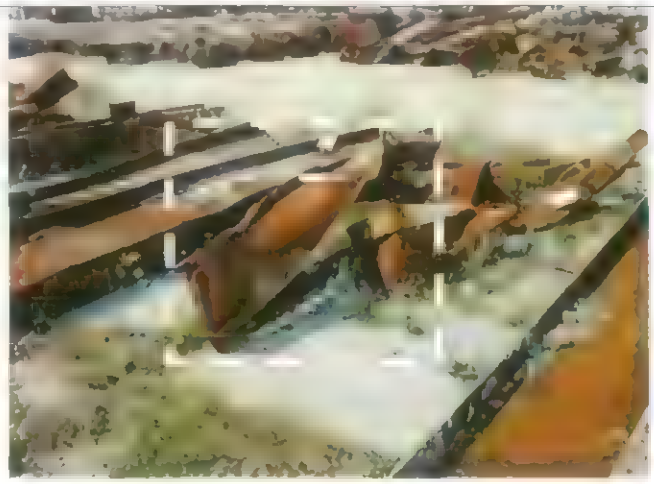
Section B-1000: Structural Steel

Item: Steel I-Beam

Dimensions: 14ft.L x 4ft.W x 3ft.H

B-1035



Decontamination Notes:

Decontamination Category: **1**

P1010063.jpg

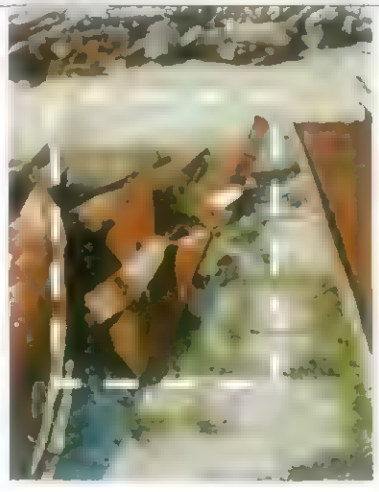
8/12/02

Section B-1000: Structural Steel

Item: Steel I-Beam

Dimensions: 11ft.L x 2ft.W x 2ft.H

B-1036



Decontamination Notes:

Decontamination Category: **1**

P1010066.jpg

8/12/02

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Section B: Objects Stored Off Site

Prepared by:
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Section B-1000: Structural Steel	**B-1037**
Item: Steel I-Beam Dimensions: 20ft.L x 4ft.W x 4ft.H	
Decontamination Notes:	
Decontamination Category: **1**	P1010068.jpg 8/12/02

Section B-1000: Structural Steel	**B-1038**
Item: Steel I-Beam Dimensions: 9ft.L x 2ft.9in.W x 1ft.H	
Decontamination Notes:	
Decontamination Category: **1**	P1010074.jpg 8/12/02

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Section B-1000: Structural Steel

B-1039

Item: Steel I-Beam

Dimensions: 14ft.L x 5ft.W x 4ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010058.jpg

8/12/02

Section B-1000: Structural Steel

B-1040

Item: Structural Steel Beam

Dimensions: 12ft.L x 5ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P8230041.jpg

8/23/02

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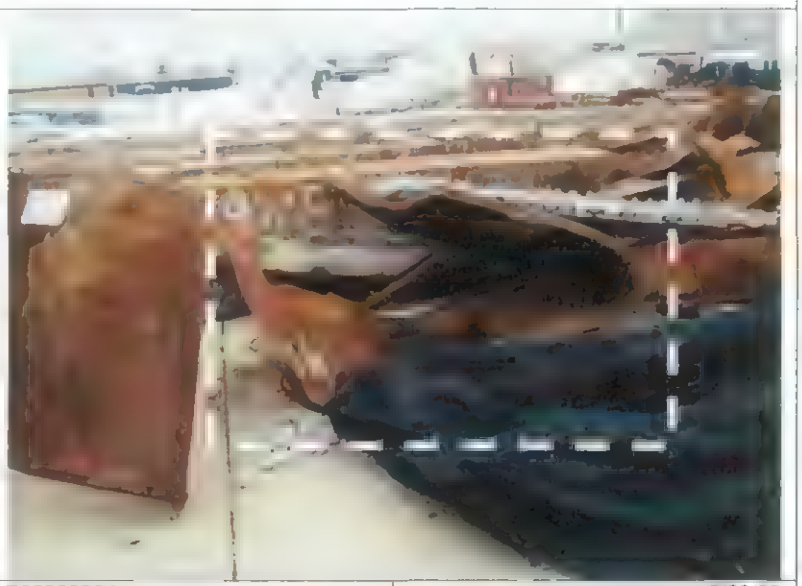
Section B-1000: Structural Steel

B-1041

Item: Steel Plate

Dimensions: 7ft.L x 5ft.W x 4ft.H



Decontamination Notes:

Decontamination Category: **1**

P8230036.jpg

8/23/02

Section B-1000: Structural Steel

B-1042

Item: Steel I-Beam

Dimensions: 8ft.L x 3ft.W x 5ft.H

Decontamination Notes:

Decontamination Category: **1**

P8230038.jpg

8/23/02

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Section B: Objects Stored Off Site

Prepared by
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Section B-1000: Structural Steel

B-1043

Item: Prefabricated exterior wall module: 2 WTC between 43 & 46 floors

Dimensions: 35ft.L x 11ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: **1**

PA040076.jpg

10/04/02

Section B-1000: Structural Steel

B-1044

Item: Prefabricated exterior wall module

Dimensions: 45ft.L x 11ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: **1**

PA040076.jpg

10/04/02

Prepared by:
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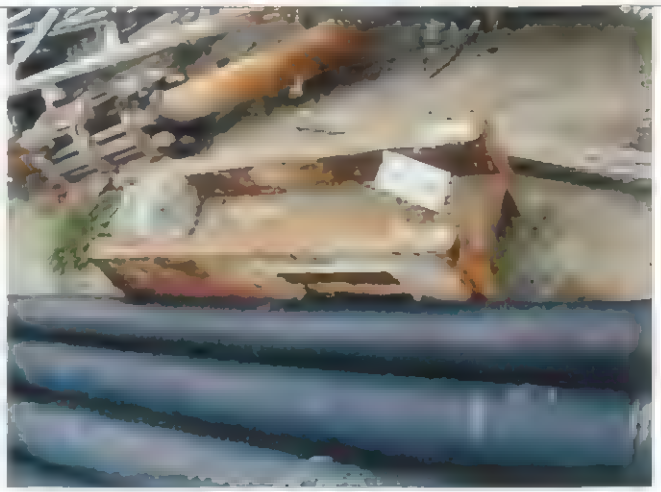
Section B-1000: Structural Steel

B-1045

Item: Steel Beam

Dimensions: 5ft.L x 2ft.W x 2ft.H



Decontamination Notes:

Decontamination Category: **1**

PA040084 jpg

10/04/02

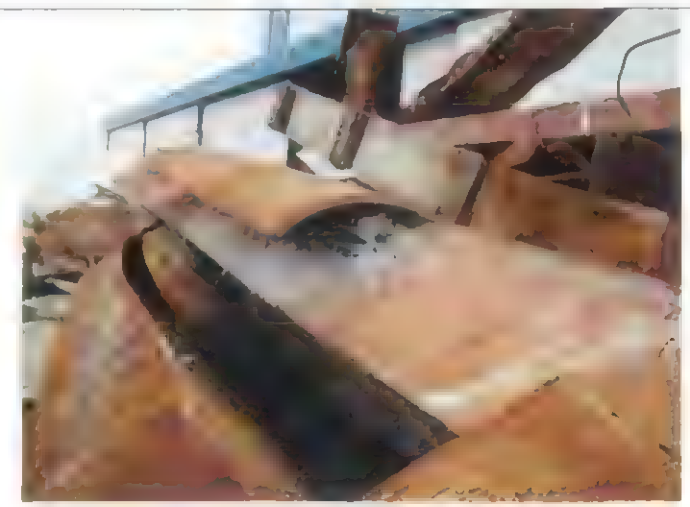
Section B-1000: Structural Steel

B-1046

Item: Prefabricated exterior wall module (PART)

Dimensions: 15ft.L x 2ft.W x 2ft.H

* Architect and Conservation Team request special consideration of debris associated with this object.



Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for consolidation and preservation of debris prior to any action.

Decontamination Category: **4**

PA040095 jpg

10/04/02

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Section B: Objects Stored Off Site

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Section B-2000: Building Materials

B-2001

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 2ft.H

(17) Grey ¾" Granite Planks,
Long box containing Misc. pieces of Marble

Decontamination Notes:

Decontamination Category: 1

P1010037.jpg

8/7/02

Section B-2000: Building Materials

B-2002

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 12ft.H

(10) Grey ¾" Granite Planks,
Misc. pieces of Travertine,
(4) Grey ¾" Granite Slabs

Decontamination Notes:

Decontamination Category: 1

P1010039.jpg

8/7/02

Prepared by
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Section B-2000: Building Materials

B-2003

Item Misc Stone on wood Palette

Dimensions: 5ft.L x 4ft.W x 2ft.H

Salvaged material
Box of Misc. Pieces of Broken Travertine Slabs

Decontamination Notes:

Decontamination Category: 1

P1010041.jpg

8/7/02

Section B-2000: Building Materials

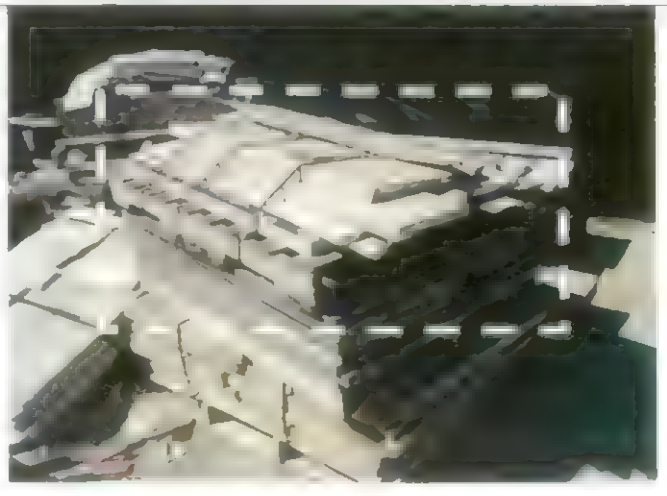
B-2004

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 1ft.H

Salvaged material
Misc. Pieces of Travertine Slab and Counter Tops

Decontamination Notes



Decontamination Category: 1

P1010043.jpg

8/7/02

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Section B: Objects Stored Off Site

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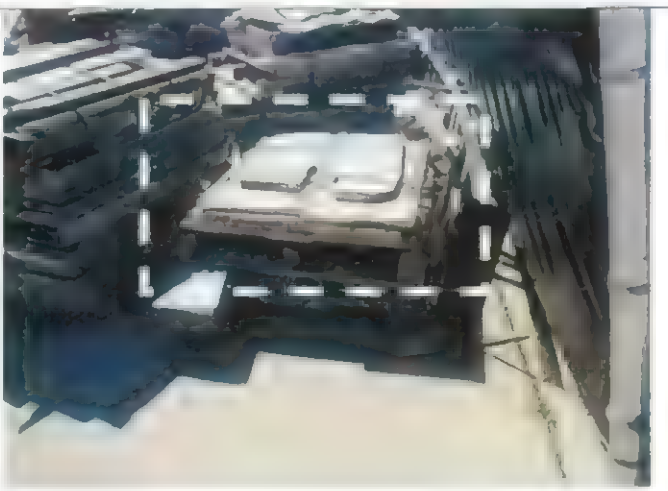
Section B-2000: Building Materials	**B-2005**
Item: Misc. Stone on wood Palette Dimensions: Palette: 5ft.L x 4ft.W x 1ft.6in.H	
(14) Grey ¾"Granite Slabs	
Decontamination Notes:	
Decontamination Category: **1**	P1010045.jpg 8/7/02

Section B-2000: Building Materials	**B-2006**
Item: Misc. Stone on wood Palette Dimensions: Palette: 5ft.L x 4ft.W x 2ft.H	
(14) Grey ¾"Granite Slabs	
Decontamination Notes:	
Decontamination Category: **1**	P1010047.jpg 8/7/02

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Section B-2000: Building Materials

B-2007

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 1ft.6in.H

(24) Grey ¾" Granite Planks

Decontamination Notes:

Decontamination Category: **1**

P1010047.jpg 8/7/02

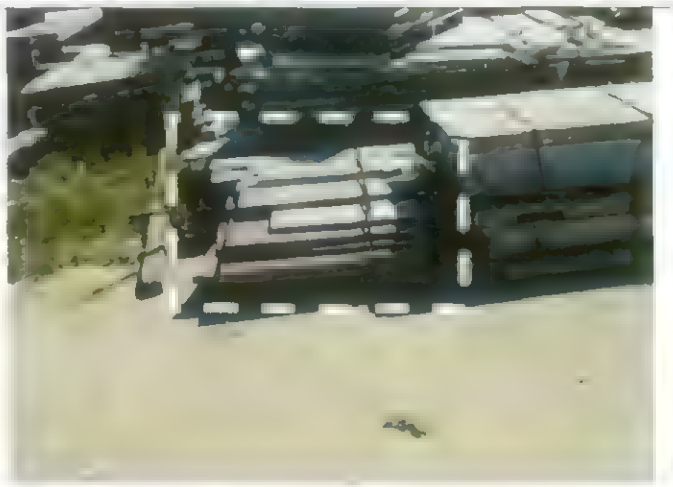
Section B-2000: Building Materials

B-2008

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 2ft.H

Grey Marble Door Saddles,
(8) Red 1-¼"Granite Slabs



Decontamination Notes:

Decontamination Category: **1**

P1010051.jpg 8/7/02

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Section B: Objects Stored Off Site

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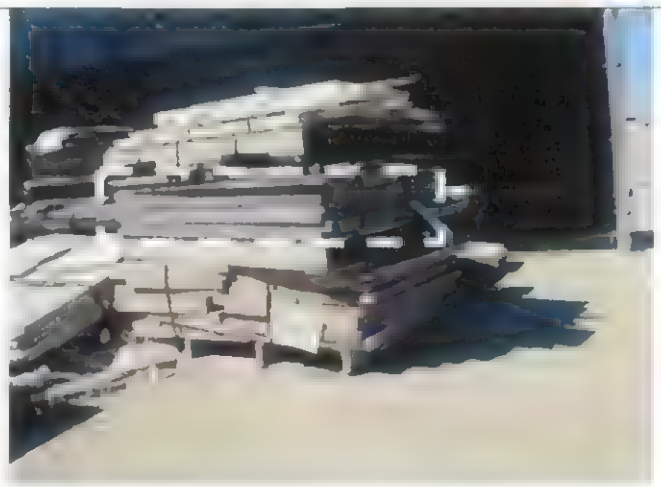
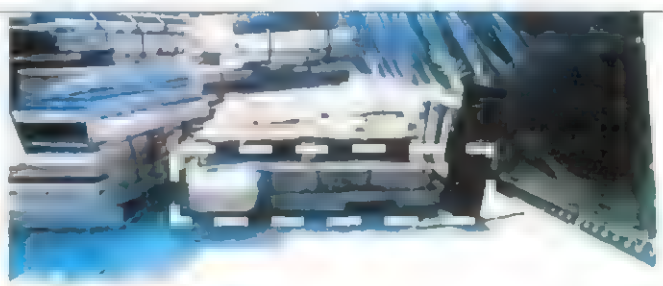
Section B-2000: Building Materials	**B-2009**	
Item: Misc. Stone on wood Palette Dimensions: Palette: 5ft.L x 4ft.W x 1ft.6in.H		
(15) Black 1-¼"Granite Slabs		
Decontamination Notes:		
Decontamination Category: **1**	P1010053 jpg	8/7/02

Section B-2000: Building Materials	**B-2010**	
Item: Misc. Stone on wood Palette Dimensions: Palette: 5ft.L x 4ft.W x 1ft.H		
(4) Red 5" thick Granite Stone		
Decontamination Notes:		
Decontamination Category: **1**	P1010055 jpg	8/7/02

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Section B: Objects Stored Off Site

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Section B-2000: Building Materials

B-2011

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 2ft.H

(18±) Pink 1-¼"Granite Slabs

Decontamination Notes:

Decontamination Category: **1**

P1010053.jpg

8/7/02

Section B-2000: Building Materials

B-2012

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 1ft.6in.H

(6+-) Grey ¾" Granite Slabs,
(8) 1-¼"Granite Slabs

Decontamination Notes:

Decontamination Category: **1**

P1010060.jpg

8/7/02

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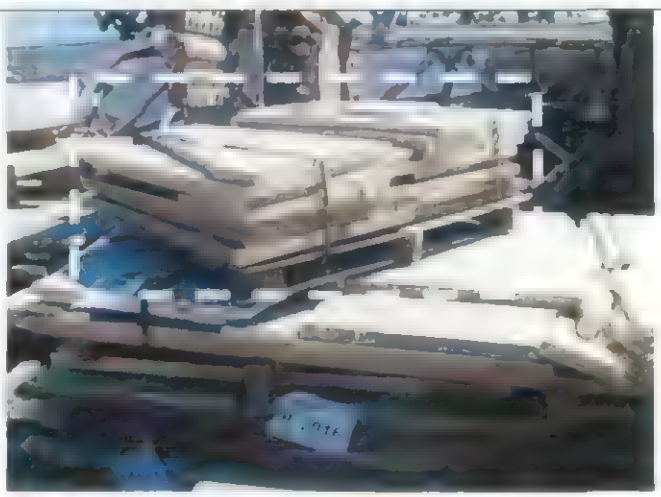
Section B-2000: Building Materials	**B-2013**
Item: Misc. Stone on wood Palette Dimensions: Palette: 5ft.L x 4ft.W x 2ft.H	
Miscellaneous Travertine Pieces	
Decontamination Notes:	
Decontamination Category: **1**	P1010062 jpg — 8/7/02

Section B-2000: Building Materials	**B-2014**
Item: Misc. Stone on wood Palette Dimensions: Palette: 5ft.L x 4ft.W x 2ft.H	
Grey & Red 1-¼"Granite Slabs	
Decontamination Notes:	
Decontamination Category: **1**	P1010064 jpg — 8/7/02

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Section B-2000: Building Materials

B-2015

Item: Misc. Stone on wood Palette

Dimensions: Palette: 8ft.L x 4ft.W x 1ft.6in.H

Grey Granite, Travertine, Grey Marble—Miscellaneous Sizes

Decontamination Notes:

Decontamination Category: **1**

P1010068.jpg

8/7/02

Section B-2000: Building Materials

B-2016

Item: Misc. Stone on wood Palette

Dimensions: Palette: 8ft.L x 4ft.W x 1ft.6in.H

Grey Marble and Travertine—Misc. Sizes and Thickness

Decontamination Notes:

Decontamination Category: **1**

P1010068.jpg

8/7/02

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Section B-2000: Building Materials

B-2017

Item: Misc. Stone on wood Palette

Dimensions: Palette: 8ft.L x 4ft.W x 1ft.6in.H

Grey Marble and Travertine—Misc. Sizes and Thickness

Decontamination Notes:

Decontamination Category: **1**

P1010068 jpg

8/7/02

Section B-2000: Building Materials

B-2018

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 1ft.H

Grey, Pink and Red Granite—Miscellaneous Sizes

Decontamination Notes:

Decontamination Category: **1**

P1010073.jpg

8/7/02

Prepared by
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Section B-2000: Building Materials

B-2019

Item: Misc. Stone on wood Palette

Dimensions: Palette: 5ft.L x 4ft.W x 2ft.H

(12) Pink 1-¼" Granite Slabs

Decontamination Notes:

Decontamination Category: **1**

P1010075.jpg

8/7/02

Section B-2000: Building Materials

B-2020

Item: Misc. Stone on wood Palette

Dimensions: Palette: 6ft.L x 3ft.W x 1ft.6in.H

¾" Travertine Planks Misc. Widths and 72in.L

Decontamination Notes:

Decontamination Category: **1**

P1010077.jpg

8/7/02

Prepared by
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Section B-2000: Building Materials

B-2021

Item: Misc. Stone on wood Palette

Dimensions: Palette: 8ft.L x 4ft.W x 1ft.6in.H

(9±) ¾" Travertine Planks

Decontamination Notes:

Decontamination Category: **1**

P1010079.jpg

8/7/02

Section B-2000: Building Materials

B-2022

Item: Misc. Stone on wood Palette

Dimensions: Palette: 8ft.L x 4ft.W x 2ft.H

Salvaged material
(12) Grey Marble Saddles—60in.L
Grey 1-¼" Marble Slab
5 Grey 1-¼" Marble Slabs

Decontamination Notes:

Decontamination Category: **1**

P1010081.jpg

8/7/02

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Section B-2000: Building Materials

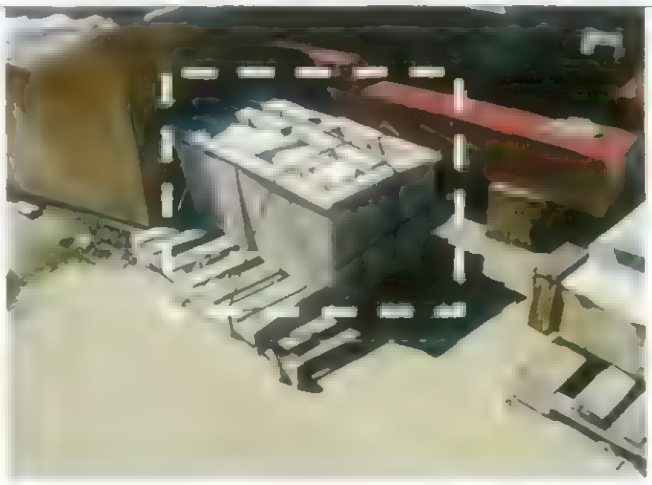
B-2023

Item: (2) Plastic Planters Full of Misc. Travertine

Dimensions: 5ft.L x 4ft.W x 2ft.H

Salvaged material
(2) Plastic Planters Full of Misc. Travertine

Decontamination Notes:



Decontamination Category: **1**

P1010085.jpg

8/7/02

Section B-2000: Building Materials

B-2101

Item: Aluminum Cladding
40 (±) Pieces

Dimensions: 15ft.L x 8ft.W x 6ft.H

*NOTE: Due to the inaccessibility of each individual item catalog numbers B-2101 through B-2200 have been reserved for all miscellaneous aluminum cladding. Items will be individually numbered after decontamination

Decontamination Notes

Decontamination Category: **1**

P1010085.jpg

8/14/02

Prepared by
VOORSANGER & ASSOCIATES ARCHITECTS PC 246 WEST 38th STREET NY NY 10018 Tel 212 302 6464

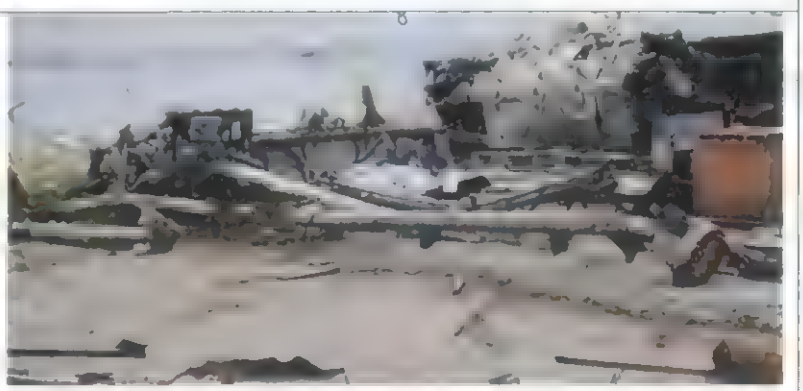
Section B-3000: Building Components

B-3001

Item: North Tower Antenna

Dimensions: 30ft.L x 3ft. Dia.

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.



Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040010-a.jpg

10/04/02

Section B-3000: Building Components

B-3002

Item: North Tower Antenna

Dimensions: 14ft.L x 3ft. Dia.

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040013-a jpg

10/04/02

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Section B-3000: Building Components

B-3003

Item: North Tower Antenna

Dimensions: 25ft.L x 5ft. x 5ft. H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040015-a.jpg 10/04/02

Section B-3000: Building Components

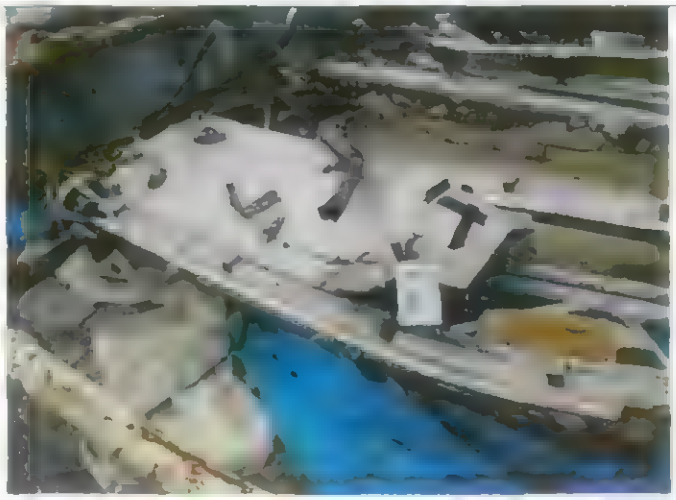
B-3004

Item: North Tower Antenna

Dimensions: 18ft.L x 5ft. x 3ft. H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris



Decontamination Category: **1**

PA040023-a.jpg 10/04/02

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Section B-3000: Building Components

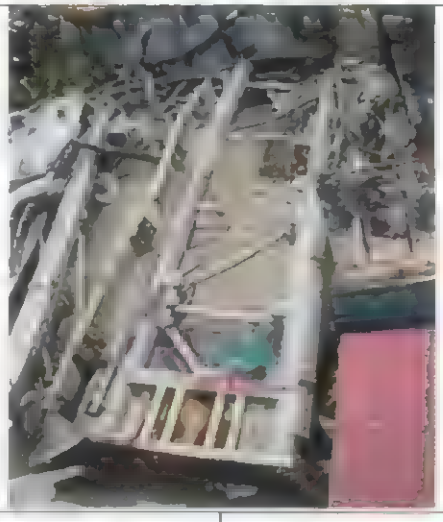
B-3005

Item: North Tower Antenna

Dimensions: 18ft.L x 5ft. x 2ft. H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.



Decontamination Category: **1**

PA040033-a.jpg

10/04/02

Section B-3000: Building Components

B-3006

Item: North Tower Antenna

Dimensions: 10ft.L x 10ft. x 6ft. H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040026.jpg

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Section B-3000: Building Components

B-3007

Item: North Tower Antenna

Dimensions: 15ft.L x 10ft.W x 10ft.H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: 1

PA040029-a jpg 10/4/02

Section B-3000: Building Components

B-3008

Item: North Tower Antenna

Dimensions: 22ft. L x 3ft. Dia.

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: 1

PA040047 jpg 10/04/02

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Section B: Objects Stored Off Site

Prepared by:
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Section B-3000: Building Components

B-3009

Item: North Tower Antenna

Dimensions: 15ft.L x 7ft.W x 3ft.H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040049.jpg

10/04/02

Section B-3000: Building Components

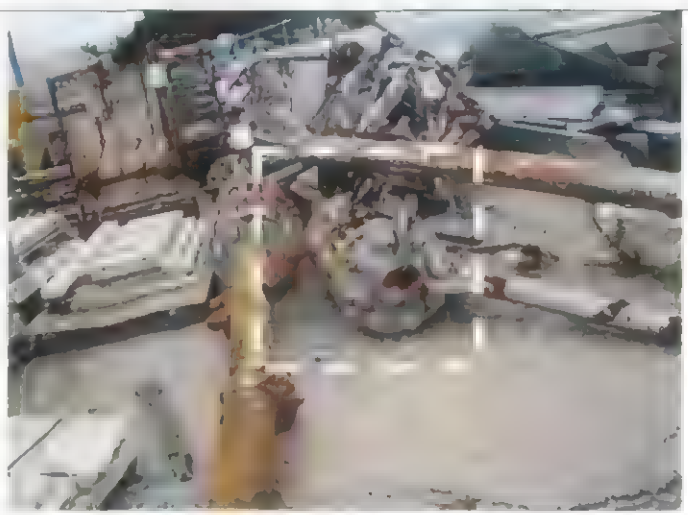
B-3010

Item: North Tower Antenna

Dimensions: 15ft.L x 4ft.W x 3ft.H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.



Decontamination Category: **1**

PA040053.jpg

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Section B-3000: Building Components

B-3011

Item: North Tower Antenna

Dimensions: 25ft.L x 6ft.W x 7ft.H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: 1

PA040057.jpg

10/04/02

Section B-3000: Building Components

B-3012

Item: North Tower Antenna

Dimensions: 10ft.L x 8ft.W x 7ft.H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris

Decontamination Category: 1

PA040050-a.jpg

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Section B-3000: Building Components

B-3013

Item: North Tower Antenna

Dimensions: 12ft.L x 2ft.Dia.

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040063.jpg

10/04/02

Section B-3000: Building Components

B-3014

Item: North Tower Antenna

Dimensions: 14ft.L x 8ft.W x 2ft.H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040065.jpg

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Section B-3000: Building Components

B-3015

Item: North Tower Antenna

Dimensions: 8ft.L x 6ft.W x 2ft.H

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040067 jpg 10/04/02

Section B-3000: Building Components

B-3016

Item: North Tower Antenna

Dimensions: 14ft.L x 3ft.Dia.

*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.

Decontamination Notes:
Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.

Decontamination Category: **1**

PA040069 jpg 10/04/02

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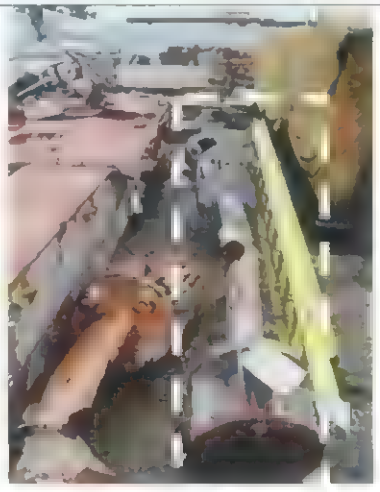
Section B-3000: Building Components	**B-3017**	
Item: North Tower Antenna Dimensions: 20ft.L x 3ft.Dia.		
*NOTE: Due to inaccessibility there are several miscellaneous pieces of the antenna not yet included in this inventory. These pieces are scattered in and around the inventoried antenna pieces. These objects shall be inventoried after decontamination.		
Decontamination Notes: Contractor should collect and decontaminate all miscellaneous pieces of metal including; copper tubing and other miscellaneous debris.		
Decontamination Category: **1**	PA040071.jpg	10/04/02

Section B-3000: Building Components	**B-3101**	
Item: Elevator Motor Dimensions: 8ft. L x 5ft. Dia.		
Brass rods intact		
Decontamination Notes:		
Decontamination Category: **1**	P1010003.jpg	8/12/02

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Section B-3000: Building Components

B-3102

Item: Elevator Motor

Dimensions: 6ft.L x 4ft.Dia.

Brass rods intact

Decontamination Notes:

Decontamination Category: 1

P1010005 jpg

8/12/02

Section B-3000: Building Components

B-3103

Item: Elevator Motor

Dimensions: 8ft.L x 5ft Dia.

Brass rods intact

Decontamination Notes:

Decontamination Category: 1

P1010008.jpg

8/12/02

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Section B-3000: Building Components	**B-3104**	
Item: Elevator Motor Dimensions: 3ft.L x 1ft.6in.Dia.		
Decontamination Notes:		
Decontamination Category: **1**	P1010013.jpg	8/12/02

Section B-3000: Building Components	**B-3105**	
Item: Elevator Motor Dimensions: 5ft.L x 3ft.Dia.		
Brass rods intact		
Decontamination Notes:		
Decontamination Category: **1**	P1010016.jpg	8/12/02

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Section B-3000: Building Components

B-3106

Item: Elevator Motor

Dimensions: 4ft.L x 2ft.Dia.

Brass rods intact

Decontamination Notes:

Decontamination Category: **1**

P1010020 jpg

8/12/02

Section B-3000: Building Components

B-3107

Item: Elevator Motor

Dimensions: 6ft.L x 4ft.Dia.

Brass rods have been removed

Decontamination Notes:

Decontamination Category: **1**

P1010022 jpg

8/12/02

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Section B-3000: Building Components	B-3108
Item: Elevator Motor Dimensions: 6ft.L x 5ft.Dia.	
Brass rods have been removed	
Decontamination Notes:	
Decontamination Category: 1	P1010025.jpg 8/12/02

Section B-3000: Building Components	B-3109
Item: Elevator Motor Dimensions: 6ft.L x 4ft.Dia.	
Brass rods have been removed	
Decontamination Notes:	
Decontamination Category: 1	P1010028.jpg 8/12/02

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Section B-3000: Building Components

B-3110

Item. Elevator Motor

Dimensions: 6ft.L x 5ft.Dia.

Brass rods have been removed

Decontamination Notes:

Decontamination Category: **1**

P1010032.jpg

8/12/02

Section B-3000: Building Components

B-3111

Item: Elevator Cab Floor Platform

Dimensions: 7ft.L x 5ft. x 3ft.H

Decontamination Notes:
Preserve all miscellaneous building materials

Decontamination Category: **1**

P8230038 jpg

8/23/02

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RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section B: Objects Stored Off Site

Prepared by
VOORSANGER & ASSOCIATES ARCHITECTS PC 246 WEST 38th STREET NY, NY 10018 Tel 212 302 6464

Section B-3000: Building Components	**B-3151**
Item: Flag Poles from Church Street Dimensions: 60ft.L x 1ft.Dia.	
Decontamination Notes:	
Decontamination Category: **1**	PA080002-a.jpg 10/08/02

Section B-3000: Building Components	**B-3152**
Item: Flag Poles from Church Street Dimensions: 60ft.L x 1ft.Dia.	
Brass rods intact	
Decontamination Notes:	
Decontamination Category: **1**	PA080002-a.jpg 10/08/02

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Section B-3000: Building Components

B-3153

Item: Flag Poles from Church Street

Dimensions: 60ft.L x 1ft.Dia.

Decontamination Notes:

Decontamination Category: **1**

PA080002-a.jpg

10/08/02

Section B-3000: Building Components

B-3154

Item: Flag Poles from Church Street

Dimensions: 60ft.L x 1ft.Dia.

Brass rods intact

Decontamination Notes:

Decontamination Category: **1**

PA080002-a jpg

10/08/02

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Section B: Objects Stored Off Site

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Section B-3000: Building Components	**B-3155**
Item: Flag Poles from Church Street Dimensions: 60ft.L x 1ft.Dia.	
Decontamination Notes:	
Decontamination Category: **1**	PA080002-a.jpg 10/08/02

Section B-3000: Building Components	**B-3176**
Item: PATH Station Turn Style Dimensions: 5ft.L x 3ft. x 4ft. H	
Decontamination Notes:	
Decontamination Category: **1**	PA040007-a.jpg 10/04/02

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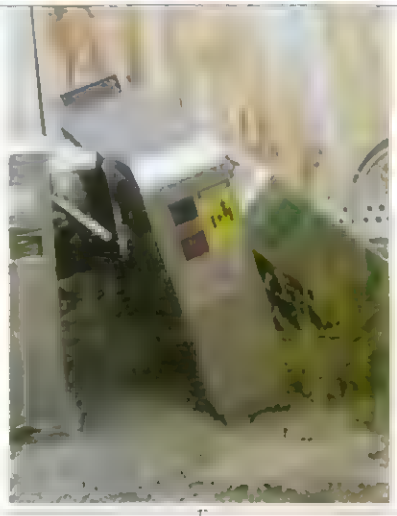
Section B-3000: Building Components

B-3177

Item: PATH Station Turn Style

Dimensions: 5ft.L x 3ft. x 4ft. H



Decontamination Notes:

Decontamination Category: **1**

PA040006-a jpg

10/04/02

Section B-3000: Building Components

B-3178

Item: PATH Station Turn Style

Dimensions: 5ft.L x 3ft. x 4ft. H

Decontamination Notes:

Decontamination Category: **1**

PA040004 jpg

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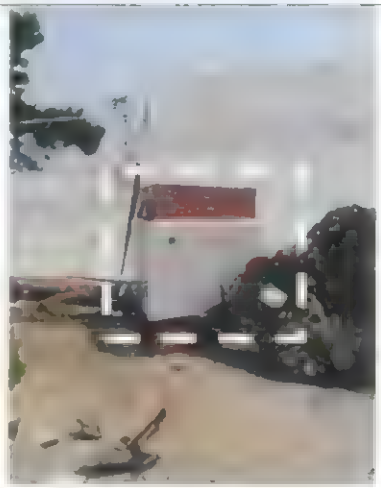
Section B-3000: Building Components

B-3201

Item: Signage: "Subway 1 and 9" "Cortland Street" "World Trade Center Station"

Dimensions: 5ft.L x 5ft.W x 7ft.H



Decontamination Notes:

Decontamination Category: **1**

P1010076.jpg

8/14/02

Section B-3000: Building Components

B-3202

Item: Signage: "PATH to New Jersey"

Dimensions: 10ft.L x 1ft.6in.W x 1in.H

Decontamination Notes:

Decontamination Category: **1**

P1010079.jpg

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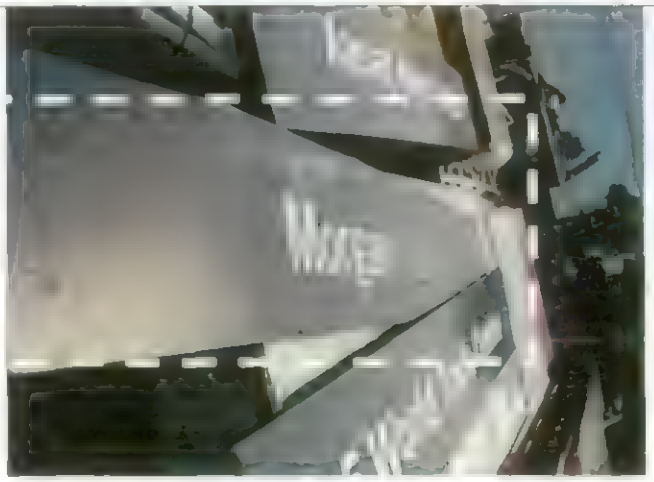
Section B-3000: Building Components

B-3203

Item: Signage: "Morgan Stanley"

Dimensions: 10ft.L x 1ft.6in.W x 1in.H



Decontamination Notes:

Decontamination Category: 1

P1010081.jpg

8/14/02

Section B-3000: Building Components

B-3204

Item: Signage: "5 World Trade Center"

Dimensions: 10ft.L x 1ft.6in.W x 1in.H

Decontamination Notes

Decontamination Category: 1

P1010083.jpg

8/14/02

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RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section B: Objects Stored Off Site

Prepared by:
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Section B-3000: Building Components

B-3205

Item: Signage. "The Mall at The World Trade Center"

Dimensions: 12ft.L x 4ft. x 2ft. H

* Architect and Conservation Team request special consideration of paper debris associated with this object.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for consolidation and preservation of debris prior to any action.

Decontamination Category: **4**

PA08000[illegible].jpg

10.08/02

Section B-3000: Building Components

B-3206

Item: Signage. content of sign unknown at this time

Dimensions. 12ft L x 4ft x 2ft. H

* Architect and Conservation Team request special consideration of paper debris (if found) associated with this object.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for consolidation and preservation of debris prior to any action

Decontamination Category: **4**

PA080015.jpg

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Section B-3000: Building Components

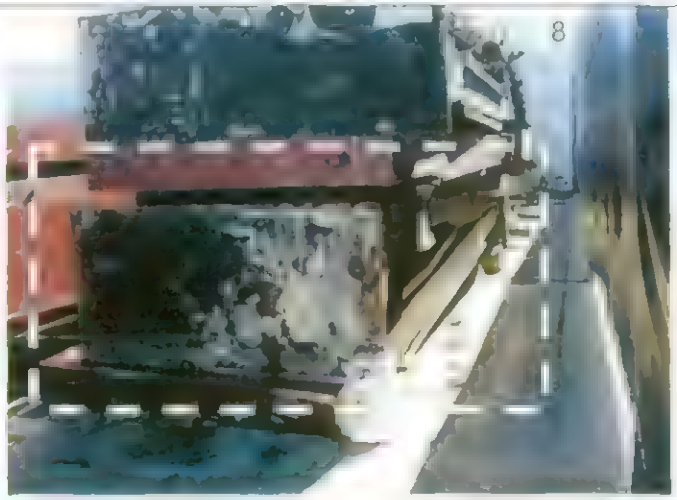
B-3207

Item: Signage: content of sign unknown at this time

Dimensions: 12ft.L x 4ft. x 2ft. H

* Architect and Conservation Team request special consideration of paper debris (if found) associated with this object.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for consolidation and preservation of debris prior to any action.



Decontamination Category: **4**

PA080018 jpg 10/08/02

Section B-3000: Building Components

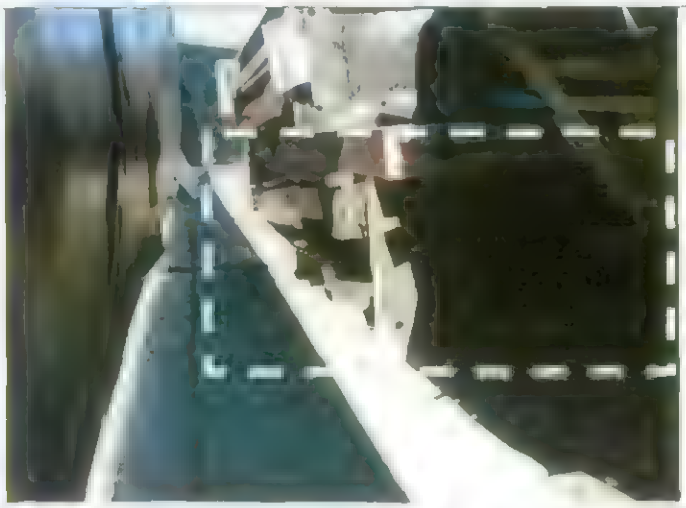
B-3208

Item: Signage: content of sign unknown at this time

Dimensions: 12ft.L x 4ft. x 2ft. H

* Architect and Conservation Team request special consideration of paper debris (if found) associated with this object

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for consolidation and preservation of debris prior to any action



Decontamination Category: **4**

PA080020 jpg 10/08/02

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Section B: Objects Stored Off Site

Prepared by
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Section B-3000: Building Components

Item: Signage: "5 World Trade Center PATH"

Dimensions: 8ft.L x 5ft. x 3ft. H

B-3209

Decontamination Notes:

Decontamination Category: **1**

PA080022 jpg

10/08/02

Section B-3000: Building Components

Item: Signage: "7 World Trade Center" "World Financial Center"

Dimensions: 12ft.L x 4ft. x 2ft. H

B-3210

Decontamination Notes:

Decontamination Category: **1**

PA080025.jpg

10/08/02

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Section B: Objects Stored Off Site

Prepared by
VOORSANGER & ASSOCIATES ARCHITECTS. PC 246 WEST 38th STREET NY. NY 10018 Tel 212 302 6464

Section B-3000: Building Components

B-3211

Item Signage Bicycle parking regulations mounted to post

Dimensions: 9ft.L x 1ft. x 1ft. H

Decontamination Notes

Decontamination Category: **1**

PA080032 jpg

10/08/02

Section B-3000: Building Components

B-3212

Item: Signage: content of sign unknown at this time

Dimensions: 20ft.L x 5ft. x 4ft. H

* Architect and Conservation Team request special consideration of paper debris (if found) associated with this object

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for consolidation and preservation of debris prior to any action

Decontamination Category: **4**

PA080036.jpg

10 08 02

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Section B-3000: Building Components

B-3213

Item: Signage: the letter "D", part of Krispy Kream "DOUGHNUTS" (returned to owner)

Dimensions: 1.5ft.L x 1.5ft.W x 3in. H

Decontamination Notes:

Decontamination Category: **1**

PA080039.jpg

10/08/02

Section B-3000: Building Components

B-3214

Item: Signage: the letter "S", part of Krispy Kream "DOUGHNUTS" (returned to owner)

Dimensions: 1.5ft.L x 1.5ft.W x 3in. H

Decontamination Notes:

Decontamination Category: **1**

PA080041.jpg

10/08/02

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Section B-3000: Building Components

B-3501

Item: Pre-cast Concrete Planter

Dimensions: 5ft. Diameter x 2ft. H

Decontamination Notes:

Decontamination Category: **1**

PA040071-a.jpg 10/04/02

Section B-3000: Building Components

B-3502

Item: Pre-cast Concrete Bench

Dimensions: 5ft. L x 2ft. W x 2ft. H

Decontamination Notes:

Decontamination Category: **1**

PA040071-a.jpg 10/04/02

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RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section B: Objects Stored Off Site

Prepared by
VOORSANGER & ASSOCIATES ARCHITECTS PC 246 WEST 38th STREET NY NY 10018 Tel 212 302 6464

Section B-3000: Building Components

Item: Pre-cast Concrete Bench

Dimensions: 5ft. L x 2ft. W x 2ft. H

B-3503

Decontamination Notes:

Decontamination Category: **1**

PA040071-a jpg

10/04/02

Section B-3000: Building Components

Item: Pre-cast Concrete Bench

Dimensions: 5ft. L x 2ft. W x 2ft. H

B-3504

Decontamination Notes:

Decontamination Category: **1**

PA040071-a jpg

10/04/02

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Section B-3000: Building Components

B-3505

Item: Pre-cast Concrete Bench

Dimensions: 5ft. L x 2ft. W x 2ft. H

Decontamination Notes:

Decontamination Category: **1**

PA040071-a jpg 10/04/02

Section B-3000: Building Components

B-3506

Item: Wood Create Containing Miscellaneous Metals (removed from the Koenig "Sphere" during decontamination)

Dimensions: 3ft. L x 3ft. W x 5ft. H

* Architect and Conservation Team request special consideration of contents.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

PA040029-b jpg 10/04/02

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Section B-4000: Vehicles

B-4001

Item: Path Train Car #745

Dimensions: 45ft.L x 9ft.W x 14ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010062.jpg

8/2/02

Section B-4000: Vehicles

B-4002

Item: Path Train Car #143

Dimensions: 45ft.L x 9ft.W x 14ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010065.jpg

8/2/02

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Section B-4000: Vehicles

B-4003

Item: Motorcycle

Dimensions: 8ft.L x 3ft.W x 2ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010067.jpg 8/2/02

Section B-4000: Vehicles

B-4004

Item: FDNY Ambulance

Dimensions: 8ft.L x 10ft.W x 9ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010078.jpg 8/2/02

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Section B-4000: Vehicles

B-4005

Item: PAPD CAD Pool Car #52320

Dimensions: 15ft.L x 8ft.W x 6ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010071.jpg

8/2/02

Section B-4000: Vehicles

B-4006

Item: PAPD K-9 Unit Car #53470

Dimensions: 12ft.L x 6ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010086.jpg

8/2/02

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Section B-4000: Vehicles

B-4007

Item: Car

Dimensions: 12ft.L x 6ft.W x 3ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010092.jpg 8/2/02

Section B-4000: Vehicles

B-4008

Item: Civilian Car

Dimensions: 10ft.L x 6ft.W x 4ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010094.jpg 8/2/02

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Section B-4000: Vehicles

B-4009

Item: Civilian Car

Dimensions: 13ft.L x 7ft.W x 3ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010099.jpg

8/2/02

Section B-4000: Vehicles

B-4010

Item: NYC Taxi #6L95

Dimensions: 16ft.L x 7ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010102.jpg

8/2/02

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Section B-4000: Vehicles

B-4011

Item: FDNY Vehicle

Dimensions: 18ft.L x 8ft.W x 6ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010104.jpg 8/2/02

Section B-4000: Vehicles

B-4012

Item: FDNY #9S99004

Dimensions: 16ft.L x 7ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010108.jpg 8/2/02

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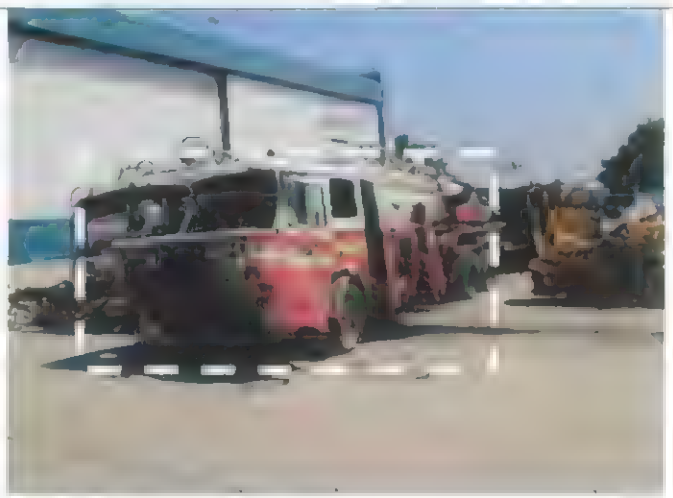
Section B-4000: Vehicles

B-4013

Item: FDNY Ladder Truck – Fort Pitt

Dimensions: 40ft.L x 8ft.W x 10ft.H

* Architect and Conservation Team request special consideration of this artifact.



Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010110.jpg

8/2/02

Section B-4000: Vehicles

B-4014

Item: FDNY Ladder Truck

Dimensions: 36ft.L x 10ft.W x 12ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010114.jpg

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Section B-4000: Vehicles

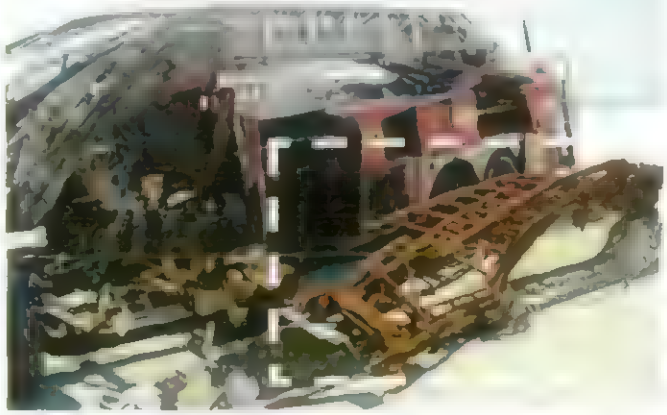
B-4015

Item: Fire Truck Ladder

Dimensions: 26ft.L X 5ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.



Decontamination Category **5**

P1010114 jpg

8/2/02

Section B-4000: Vehicles

B-4016

Item: Sheet Metal – Part of Fire Truck

Dimensions: 7ft.L x 6ft.W x 4ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action

Decontamination Category: **5**

P1010123 jpg

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Section B-4000: Vehicles

B-4017

Item: Front Axle of FDNY Truck

Dimensions: 11ft.L x 6ft.W x 4ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010126 jpg

8/2/02

Section B-4000: Vehicles

B-4018

Item: FDNY Squad Car (Iced Tea in Cooler)

Dimensions: 26ft.L x 8ft.W x 10ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010128 jpg

8/2/02

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Section B-4000: Vehicles

B-4019

Item: FDNY Truck #21

Dimensions: 26ft.L x 8ft.W x 10ft.H

* Architect and Conservation Team request special consideration of this artifact

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: 5

P1010137.jpg 8/2/02

Section B-4000: Vehicles

B-4020

Item: Car – Office of Chief Medical Examiner

Dimensions: 18ft.L x 8ft.W x 7ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: 5

P1010143.jpg 8/2/02

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Section B-4000: Vehicles

B-4021

Item: PAPD Van

Dimensions: 16ft.L x 7ft.W x 7ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010079.jpg

8/12/02

Section B-4000: Vehicles

B-4022

Item: PAPD Car

Dimensions: 8ft.L x 7ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010085.jpg

8/12/02

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Section B-4000: Vehicles

B-4023

Item: PAPD Car

Dimensions: 8ft.L x 7ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010089.jpg

8/12/02

Section B-4000: Vehicles

B-4024

Item: PAPD Car – Unmarked

Dimensions: 8ft.L x 7ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010093.jpg

8/12/02

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Section B-4000: Vehicles

B-4025

Item: PAPD Car – Unmarked

Dimensions: 8ft.L x 7ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P100097 jpg

8/12/02

Section B-4000: Vehicles

B-4026

Item: Car – PAPD Unmarked

Dimensions: 16ft.L x 7ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010026 jpg

8/14/02

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Section B-4000: Vehicles

B-4027

Item: PAPD #53500

Dimensions: 16ft.L x 6ft.W x 7ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010020.jpg

8/14/02

Section B-4000: Vehicles

B-4028

Item: Civilian Car

Dimensions: 13ft.L x 6ft.W x 6ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action

Decontamination Category: **5**

P1010017.jpg

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Section B-4000: Vehicles

B-4029

Item: PAPD #53850

Dimensions: 12ft.L x 6ft.W x 5ft.H

* Architect and Conservation Team request special consideration of this artifact.

Decontamination Notes:
Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010014.jpg

8/14/02

Section B-4000: Vehicles

B-4030

Item: Power Generator left by Secret Service

Dimensions: 6ft.L x 3ft.W x 4ft.H

Decontamination Notes:

Decontamination Category: **1**

PA170043-a.jpg

10/17/02

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RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section B: Objects Stored Off Site

Prepared by
VOORSANGER & ASSOCIATES ARCHITECTS, PC 246 WEST 38th STREET NY NY 10018 Tel 212 302 6464

Section B-5000: North Tower Curtain Wall

Item: Structural Triad

Dimensions: 45ft.L x 10ft.W x 3ft.H

B-5001

Decontamination Notes:

After detailed photography preserve in place all steel straps, aluminum cladding parts, spray fireproofing, misc. rubble and debris

Decontamination Category: **3**

P7300002.jpg

7/30/02

Section B-5000: North Tower Curtain Wall

Item: Structural Triad

Dimensions: 45ft.L x 10W x 3ft.H

B-5002

Decontamination Notes:

After detailed photography preserve in place all steel straps, aluminum cladding parts, spray fireproofing, misc. rubble and debris

Decontamination Category: **3**

P7300007.jpg

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Prepared by:
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Section B-5000: North Tower Curtain Wall

B-5003

Item: Structural Triad

Dimensions: 50ft.L x 10ft.W x 3ft.H

Decontamination Notes:

After detailed photography preserve in place all reinforced concrete, steel straps, aluminum cladding parts, spray fireproofing, misc. rubble and debris.

Decontamination Category: **3**

P7300009.jpg 7/30/02

Section B-5000: North Tower Curtain Wall

B-5004

Item: Exterior Column with Spandrel

Dimensions: 50ft.L x 10ft.W x 3ft.4in.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately

Decontamination Category: **2**

P7300014.jpg 7/30/02

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RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section B: Objects Stored Off Site

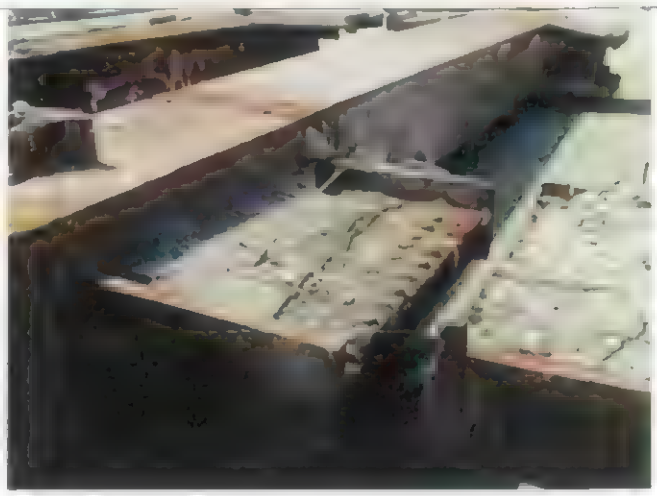
Prepared by:
VOORSANGER & ASSOCIATES ARCHITECTS. PC 246 WEST 38th STREET NY. NY 10018 Tel. 212 302 6464

Section B-5000: North Tower Curtain Wall

Item. Exterior Column with Spandrel

Dimensions: 50ft.L x 10ft.W x 3ft.4in.H

B-5005



Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300002.jpg

7/30/02

Section B-5000: North Tower Curtain Wall

Item: Exterior Column with Spandrel

Dimensions: 55ft.L x 10ft.W x 3ft.4in.H

B-5006

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately

Decontamination Category: **2**

P7300022.jpg

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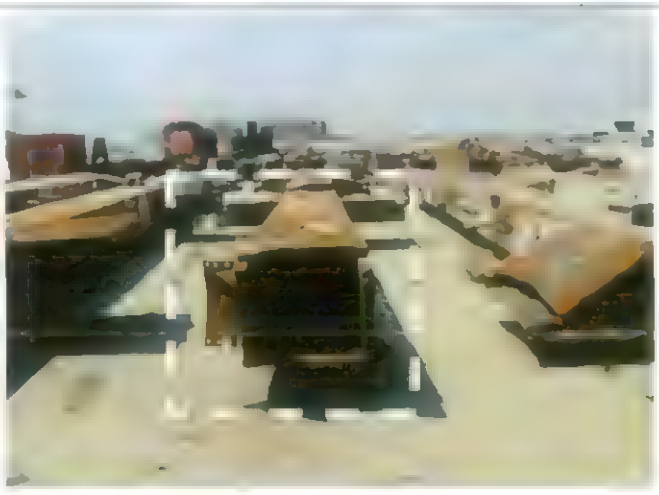
Section B-5000: North Tower Curtain Wall

Item: Exterior Column with Spandrel

Dimensions: 55ft.L x 10ft.W x 3ft.4in.H

B-5007



Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300002.jpg

7/30/02

Section B-5000: North Tower Curtain Wall

Item: Exterior Column with Spandrel

Dimensions: 55ft.L x 10ft.W x 3ft.4in.H

B-5008

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300031.jpg

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Section B-5000: North Tower Curtain Wall

B-5009

Item: Exterior Column with Spandrel

Dimensions: 42ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300039.jpg 7/30/02

Section B-5000: North Tower Curtain Wall

B-5010

Item: Exterior Column with Spandrel

Dimensions: 48ft.L x 10ft. x 3ft.4in.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300045.jpg 7/30/02

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Section B-5000: North Tower Curtain Wall

B-5011

Item: Structural Triad

Dimensions: 45ft.L x 10ft.W x 3ft.4in.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300054.jpg 7/30/02

Section B-5000: North Tower Curtain Wall

B-5012

Item: Structural Triad

Dimensions: 40ft.L x 11ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300064.jpg 7/30/02

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Section B-5000: North Tower Curtain Wall

B-5013

Item: Structural Triad

Dimensions: 40ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300069.jpg

7/30/02

Section B-5000: North Tower Curtain Wall

B-5014

Item: Structural Triad

Dimensions: 48ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300076.jpg

7/30/02

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Section B-5000: North Tower Curtain Wall

B-5015

Item: Structural Triad

Dimensions: 50ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300080 jpg

7/30/02

Section B-5000: North Tower Curtain Wall

B-5016

Item: Structural Triad

Dimensions: 40ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300084 jpg

7/30/02

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Section B: Objects Stored Off Site

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Section B-5000: North Tower Curtain Wall

Item: Structural Triad

Dimensions: 28ft.L x 11ft.W x 3ft.H

B-5017

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300057 jpg

7/30/02

Section B-5000: North Tower Curtain Wall

Item: Structural Triad

Dimensions: 28ft.L x 11ft.W x 3ft.H

B-5018

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300061 jpg

7/30/02

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Section B-5000: North Tower Curtain Wall

B-5019

Item: Structural Triad

Dimensions: 26ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7300088.jpg

7/30/02

Section B-5000: North Tower Curtain Wall

B-5020

Item: Structural Triad

Dimensions: 35ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P7300091.jpg

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Section B-5000: North Tower Curtain Wall

B-5021

Item: Structural Triad

Dimensions: 44ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P7300098.jpg

7/30/02

Section B-5000: North Tower Curtain Wall

B-5022

Item: Exterior Column with Spandrel

Dimensions: 26ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P73000106.jpg

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Section B-5000: North Tower Curtain Wall

B-5023

Item: Exterior Column with Spandrel

Dimensions: 26ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P73000108.jpg

7/30/02

Section B-5000: North Tower Curtain Wall

B-5024

Item: Exterior Column with Spandrel

Dimensions: 20ft.L x 10ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010009.jpg

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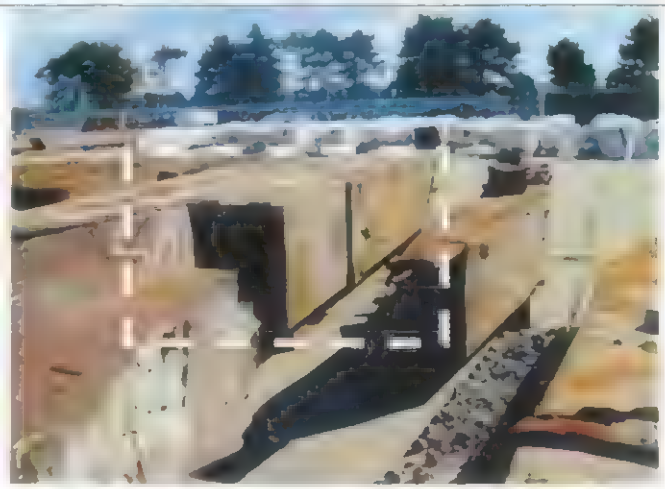
Section B-5000: North Tower Curtain Wall	B-5025	
Item: Steel Column Dimensions: 20ft.L x 14ft.W x 3ft.H		
		
Decontamination Notes:		
Decontamination Category: 1	P1010015.jpg	8/7/02

Section B-5000: North Tower Curtain Wall	B-5026	
Item: Structural Triad Dimensions: 20ft.L x 6ft.W x 3ft.H		
Decontamination Notes:		
Decontamination Category: 1	P1010018.jpg	8/7/02

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Section B-5000: North Tower Curtain Wall

B-5027

Item: Structural Triad

Dimensions: 14ft.L x 11ft.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P1010020.jpg 8/7/02

Section B-5000: North Tower Curtain Wall

B-5028

Item: Exterior Column with Spandrel

Dimensions: 22ft.L x 10ft.W x 3ft.H

Decontamination Notes

Decontamination Category: **1**

P1010012.jpg 8/7/02

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Section B-5000: North Tower Curtain Wall

B-5029

Item: Structural Triad

Dimensions: 12ft.L x 8ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010024.jpg

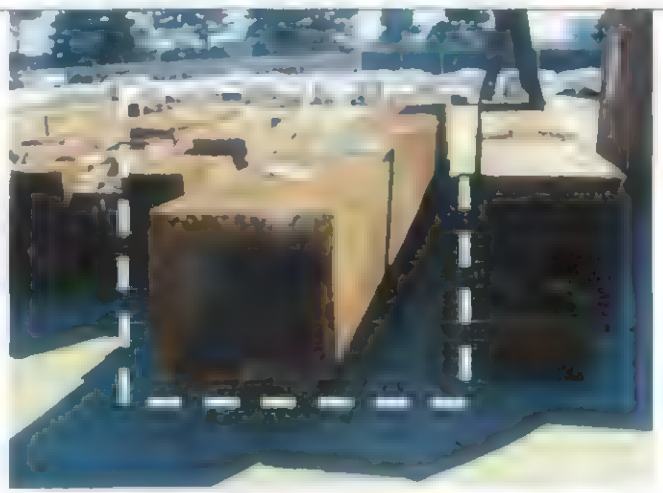
8/7/02

Section B-5000: North Tower Curtain Wall

B-5030

Item: Steel Column

Dimensions: 30ft.L x 3ft.W x 2ft.6in.H



Decontamination Notes:

Decontamination Category: **1**

P1010026.jpg

8.7.02

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Section B-5000: North Tower Curtain Wall

B-5031

Item: Steel Column

Dimensions: 21ft.L x 2ft.6in.W x 3ft.H

Decontamination Notes:

Remove all loose items only as required for decontamination.
All removed items including misc. steel and metals, rubble and debris shall be itemized and preserved separately.

Decontamination Category: **2**

P7310114.jpg

7/31/02

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Section B: Objects Stored Off Site

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Section B-6000: Miscellaneous

B-6001

Item: Reinforced Concrete Column

Dimensions: 18ft.L x 2ft.W x 2ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010055.jpg

8/2/02

Section B-6000: Miscellaneous

B-6002

Item: Rein. Concrete Column From Parking Garage

Dimensions: 14ft.L x 3ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010058.jpg

8/2/02

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Section B-6000: Miscellaneous

B-6101

Item: Processed Steel with Concrete: 15(±)

Dimensions: Area: 25ft.L x 14ft.W x 4ft.H

*NOTE: Due to the inaccessibility of each individual item catalog numbers B-6101 through B-6150 have been reserved for all such pieces. Items will be individually numbered after decontamination.

Decontamination Notes:

Decontamination Category: 1

P1010034.jpg

8/14/02

Section B-6000: Miscellaneous

B-6151

Item: Processed Steel: Exterior Column Section

Dimensions: 4ft.L x 1ft.6in.W x 1ft.6in.H

*NOTE: Due to the inaccessibility of each individual item catalog numbers B-6151 through B-6200 have been reserved for all such pieces. Items will be individually numbered after decontamination.

Decontamination Notes:

Decontamination Category: 1

P1010038.jpg

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Section B-6000: Miscellaneous

B-6152

Item: Processed Steel Ext. & Int. Column Sections--
Batch: 30(+-) pieces to be tagged after decon.

Dimensions: Area: 30ft.L x 10ft.W x 5ft.H

*NOTE: Due to the inaccessibility of each individual item catalog numbers B-6151 through B-6200 have been reserved for all such pieces. Items will be individually numbered after decontamination.

Decontamination Notes:

Decontamination Category: **1**

P1010041.jpg

8/14/02

Section B-6000: Miscellaneous

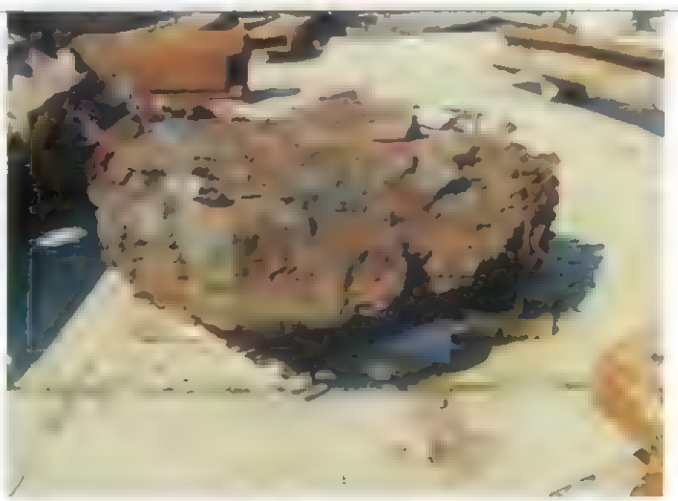
B-6201

Item: Composite ("meteor")

Dimensions: 10ft.Dia. x 4ft.H

*NOTE: This item is extremely FRAGILE. Handle with care.
Contractor to construct palette per Architects specifications. Item shall be secured to palette for all future transportation

Decontamination Notes:
* Architect and Conservation Team request special consideration of this artifact. Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.



Decontamination Category: **5**

P1010011.jpg

8/2/02

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Section B-6000: Miscellaneous

B-6202

Item Composite ("meteor")

Dimensions: 10ft.L x 6ft.W x 5ft.H

*NOTE: This item is extremely FRAGILE. Handle with care.
Contractor to construct palette per Architects specifications. Item shall be secured to palette for all future transportation

Decontamination Notes:
* Architect and Conservation Team request special consideration of this artifact. Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P1010010.jpg 8/14/02

Section B-6000: Miscellaneous

B-6226

Item: Steel Track

Dimensions: 9ft.L x 4ft.W x 3ft.H

Decontamination Notes:

Decontamination Category: **1**

P1010008.jpg 8/14/02

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Section B-6000: Miscellaneous

Item: Steel Track

Dimensions: 4ft.L x 5ft.W x 1ft.H

B-6227

Decontamination Notes:

Decontamination Category: **1**

P1010044 jpg

8/14/02

Section B-6000: Miscellaneous

Item: Steel Track

Dimensions: 10ft.L x 7ft.W x 6ft.H

B-6228

Decontamination Notes:

Decontamination Category: **1**

P1010047 jpg

8/14/02

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Section B-6000: Miscellaneous

Item: Steel Re-Bar

Dimensions: 5ft.L x 4ft.W x 1ft.6in.H

B-6501

Decontamination Notes:

Decontamination Category: **1**

P1010031.jpg

8/14/02

Section B-6000: Miscellaneous

Item: Flattened Steel Pipe

Dimensions: 16ft.L x 4ft.W x 1ft.6in.H

B-6502

Decontamination Notes:

Decontamination Category: **1**

P1010053.jpg

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Section B-6000: Miscellaneous	**B-6503**
Item: Pipe—10in. Dia. Dimensions: 10ft.L x 7ft.W x 6ft.H	
Decontamination Notes: Preserve loose debris	
Decontamination Category: **1**	P1010050.jpg 8/14/02

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Section B: Objects Stored Off Site

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Section B-7000: Select Miscellaneous Debris

B-7001

Item: Miscellaneous Debris

Dimensions: 20ft.L x 8ft.W x 6ft.H

*NOTE: Due to the delicate nature of these items and the manner in which they are grouped tagging each individual item is not possible at this time. Therefore, if individual tagging is required at a later date catalog numbers B-7001 through B-7999 have been reserved for all items within this group. Items include: fire hose, part of a FDNY vehicle, miscellaneous building materials, office furnishings and finishes.

Decontamination Notes:
* Architect and Conservation Team request special consideration of this artifact. Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.

Decontamination Category: **5**

P8230003.jpg

8/23/02

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Section B-8000: Random Miscellaneous Steel: Originally held for the Mayors Office

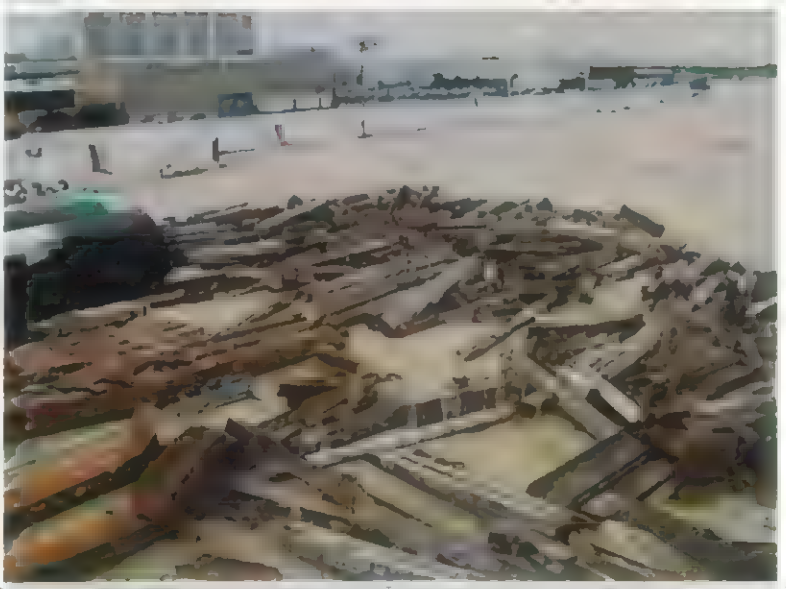
B-8001

Item: Miscellaneous Steel Debris

Dimensions: Undetermined At This Time

*NOTE: Due to the inaccessibility of each individual item catalog numbers B-8001 through B-9999 have been reserved for all miscellaneous steel that was originally being held for the Mayors Office. Items will be individually numbered during the decontamination process. It is doubtful that Hanger 17 will have enough space to house these objects.

Decontamination Notes:



Decontamination Category: 1

P8230063 jpg
P8230067 jpg

08/23/02
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SECTION C:
COMMISSIONED FINE ART OBJECTS

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RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section C: Commissioned Fine Art Objects

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Section C: Commissioned Fine Art Objects

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Section C-1000: WTC Public Art Collection	C-1001	
Item: Koenig Cast Bronze Sculpture Dimensions:		
Not included in this inventory. Sculpture is currently		
Decontamination Notes:		
Decontamination Category:	P.jpg	/02

Section C-1000: WTC Public Art Collection	C-1002	
Item: Koenig Cast Bronze Sculpture (Part) Dimensions: 36in.L x 18in.W x 9in.H		
Decontamination Notes:		
Decontamination Category: **1**	P1010087.jpg	8/7/02

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Section C-1000: WTC Public Art Collection

C-1003

Item: Koenig Cast Bronze Sculpture (Part)

Dimensions: 1ft.6in.L x 1ft.W x 1in.H

Decontamination Notes:

Decontamination Category: **1**

P1010057.jpg

8/14/02

Section C-1000: WTC Public Art Collection

C-1004

Item: Koenig Cast Bronze Sculpture (Part)

Dimensions: 3ft.L x 3ft.W x 9in.H

Decontamination Notes:

Decontamination Category: **1**

P1010059.jpg

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Section C: Commissioned Fine Art Objects

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Section C-1000: WTC Public Art Collection	C-1005	
Item: Koenig Cast Bronze Sculpture (Part) Dimensions: 5ft.L x 3ft.W x 9in.H		
Decontamination Notes:	P1010062.jpg	8/14/02
Decontamination Category: 1		

Section C-1000: WTC Public Art Collection	C-1006	
Item: Koenig Cast Bronze Sculpture (Part) Dimensions: 2ft. Dia. x 4in.H		
Decontamination Notes:	P1010064.jpg	8/14/02
Decontamination Category: 1		

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Section C-1000: WTC Public Art Collection

C-1007

Item: Koenig Cast Bronze Sculpture (Interior Frame)

Dimensions: 3ft.L x 2ft.W x 6in.H

Decontamination Notes:

Decontamination Category: **1**

P1010066.jpg 8/14/02

Section C-1000: WTC Public Art Collection

C-1008

Item: Koenig Cast Bronze Sculpture (Interior Frame)

Dimensions: 4ft.L x 1ft.6in.W x 6in.H

Decontamination Notes:

Decontamination Category: **1**

P1010068.jpg 8/14/02

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Section C: Commissioned Fine Art Objects

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Section C-1000: WTC Public Art Collection

Item: Koenig Cast Bronze Sculpture (Interior Frame)

Dimensions: 4ft.L x 1ft.6in.W x 6in.H

C-1009

Decontamination Notes:

Decontamination Category: **1**

P1010070.jpg

8/14/02

Section C-1000: WTC Public Art Collection

Item: Koenig Cast Bronze Sculpture (Interior Frame)

Dimensions: 1ft.6in.L x 9in.W x 6in.H

C-1010

Decontamination Notes:

Decontamination Category: **1**

P1010072.jpg

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Section C-1000: WTC Public Art Collection

C-1011

Item: Koenig Cast Bronze Sculpture (Interior Frame)

Dimensions: 9in.L x 9in.W x 6in.H

Decontamination Notes:

Decontamination Category: **1**

P1010074.jpg

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SECTION D:
Objects Memorialized By Salvage/Rescue Crews

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Section D: Objects Memorialized by Salvage/Rescue Crews

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Section D-1000: Memorials Constructed on Site

D-1001

Item: Light Pole Used as Flagpole

Dimensions: 32ft.L

Decontamination Notes:

Decontamination Category: **1**

P1010022 jpg

8/2/02

Section D-1000: Memorials Constructed on Site

D-1002

Item: Steel Angel

Dimensions: 18ft.L x 9ft.W x 6in.H

Decontamination Notes:

Decontamination Category: **1**

P1010026 jpg

8/2/02

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Section D: Objects Memorialized by Salvage/Rescue Crews

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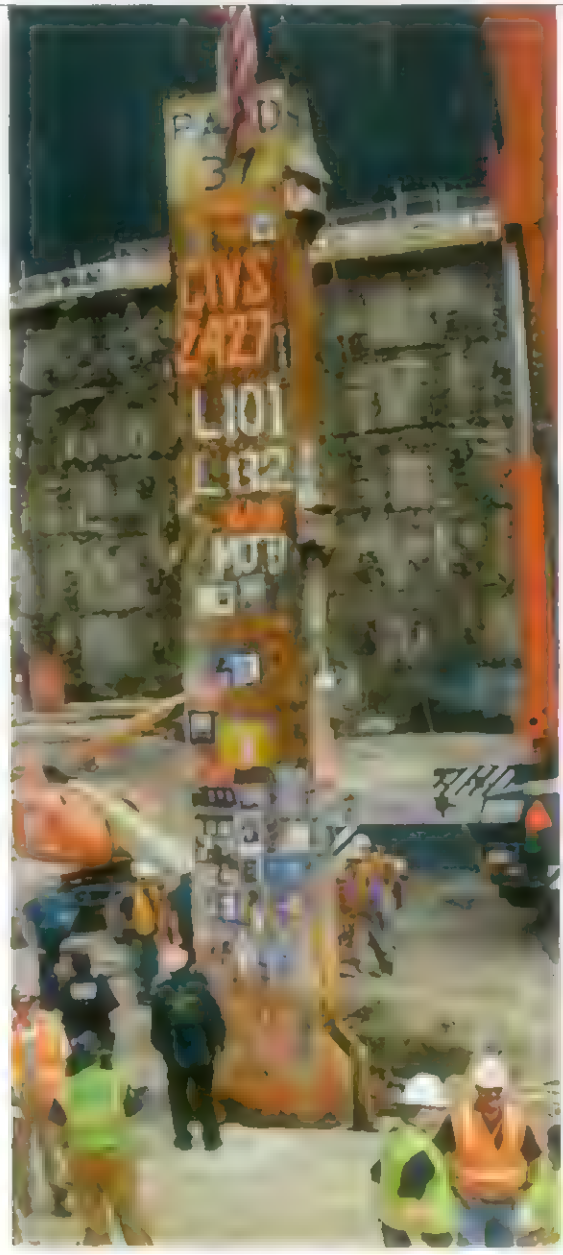
Section D-1000: Memorials Constructed on Site

D-1101

Item: Last Column

Dimensions: 45ft.L x 7ft.W x 3ft.H



Decontamination Notes:
*NOTE: See the "Preservation Report", included, for special recommendations.

Decontamination Category: **5**

P5280044-a.jpg

Taken on site. 5/28/02

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SECTION F:
Social Content

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Section F: Social Content

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Section F: Social Content

Prepared by:
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Section F-3000: Misc. Social Representation	**F-1001**	
Item: Wood Create Containing Miscellaneous Paper (removed from the Koenig "Sphere" during decontamination) Dimensions: 3ft. L x 3ft. W x 5ft. H		
* Architect and Conservation Team request special consideration of this artifact.		
Decontamination Notes: Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.		
Decontamination Category: **5**	PA040029-b.jpg	10/04/02

Section F-3000: Misc. Social Representation	**F-3001**	
Item: Bicycle Rack w/ 7 Bikes Dimensions: 10ft.L x 5ft.W x 5ft.H		
Decontamination Notes:		
Decontamination Category: **1**	P1010034 jpg	8/7/02

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Section F: Social Content

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Section F-3000: Misc. Social Representation	**F-3002**
Item: Bronze Memorial Plaque Dimensions: 30in.L x 20in.W x 2in.H	
Inscription: 1624 1672 RICHARD NICOLLS First Governor of New York 1664-1668	
Decontamination Notes:	
Decontamination Category: **1**	P1010083.jpg 8/7/02

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SECTION X: Temporary

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Prepared by:
VOORSANGER & ASSOCIATES ARCHITECTS, PC 246 WEST 38th STREET NY, NY 10018 Tel. 212. 302. 6464

The Port Authority of New York and New Jersey 2002

THE PORT AUTHORITY OF NY & NJ

RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section F: Social Content

Prepared by
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Section X-0000: Temporary Catalog Numbers	**X-0001**	
Item: Unknown Contents of Steel Waste Container Dimensions: 15ft. L x 6ft. W x 6ft. H		
* Architect and Conservation Team request special consideration of this artifact.		
Decontamination Notes: Contents unknown. Inspection required prior to decontamination Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.		
Decontamination Category: **5**	PA040078-a.jpg	10/04/02

Section X-0000: Temporary Catalog Numbers	**X-0002**	
Item: Unknown Contents of Steel Waste Container Dimensions: 15ft. L x 6ft. W x 9ft. H		
* Architect and Conservation Team request special consideration of this artifact.		
Decontamination Notes: Contents unknown. Inspection required prior to decontamination Contractor please consult Architect and Conservation team to discus possible methods for decontamination and preservation of debris prior to any action.		
Decontamination Category: **5**	P1010034.jpg	8/7/02

III. HANGER 17 PROPOSED OBJECT LAYOUT

THE PORT AUTHORITY OF NY & NJ

RECOMMENDATIONS FOR THE SALVAGE OF OBJECTS FOR USE IN A FUTURE WORLD TRADE CENTER ARCHIVE

Section D: Objects Memorialized by Salvage/Rescue Crews

Prepared by.
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Proposed Layout Summary

The south/east side of hanger 17 provides approximately 80,000 square feet of open storage space in, the former, aircraft bay. In addition to this open area there is approximately 4,000 square feet available at the north/east end of the hanger. This area was once a maintenance shop and locker room.

The attached layout proposes that the maintenance shop is converted into a Small Artifact Storage facility. Due to the delicate nature of some smaller artifacts, they will require a higher level of security and possibly a more stable climate controlled environment. The preparation of this space will require clean up and refurbishment of existing light fixtures. Construction of interior partitions, storage racks, and climate control equipment may also be required for proper storage and care of the artifacts. This space has direct landside access through existing leaf and roll up overhead doors. In addition there is direct access, through existing doors, to existing loading dock and the primary storage area (the former aircraft bay). The primary storage area will house the majority of the archive. Currently existing in the storage area is a 6,200 SF decontamination facility, which will remain indefinitely, and an existing 800 SF office, also to remain. With minimal preparation this existing office has the potential to be used for future operation of the archive. The remaining available storage area for large artifacts is 72,000 SF. The storage area has direct airside access to the airfield through existing hanger and roll up overhead doors. There is also direct access through existing roll up overhead doors to the buildings central circulation corridor and to the proposed Small Artifact Storage facility. All doors will require lock replacement to ensure security of the Archive.

Through discussions with the contractor, who will do the actual moving, placement of the artifacts has been carefully planned to allow the required circulation passage for trucks or fork-lift. By dividing the space into storage "zones" and providing main circulation arteries we minimize the number of artifacts required to be moved to gain access to an artifact in the back of any zone. With this circulation space provided, in order to fit everything into the area, it is necessary to stack some artifacts. The artifacts selected to be stacked will be from the B-5000 series; North Tower curtain wall.

Illustrated on the following pages are the proposed circulation layout, the proposed artifact layout and diagrams of each zone and which artifacts, listed by catalog number, are located within it.

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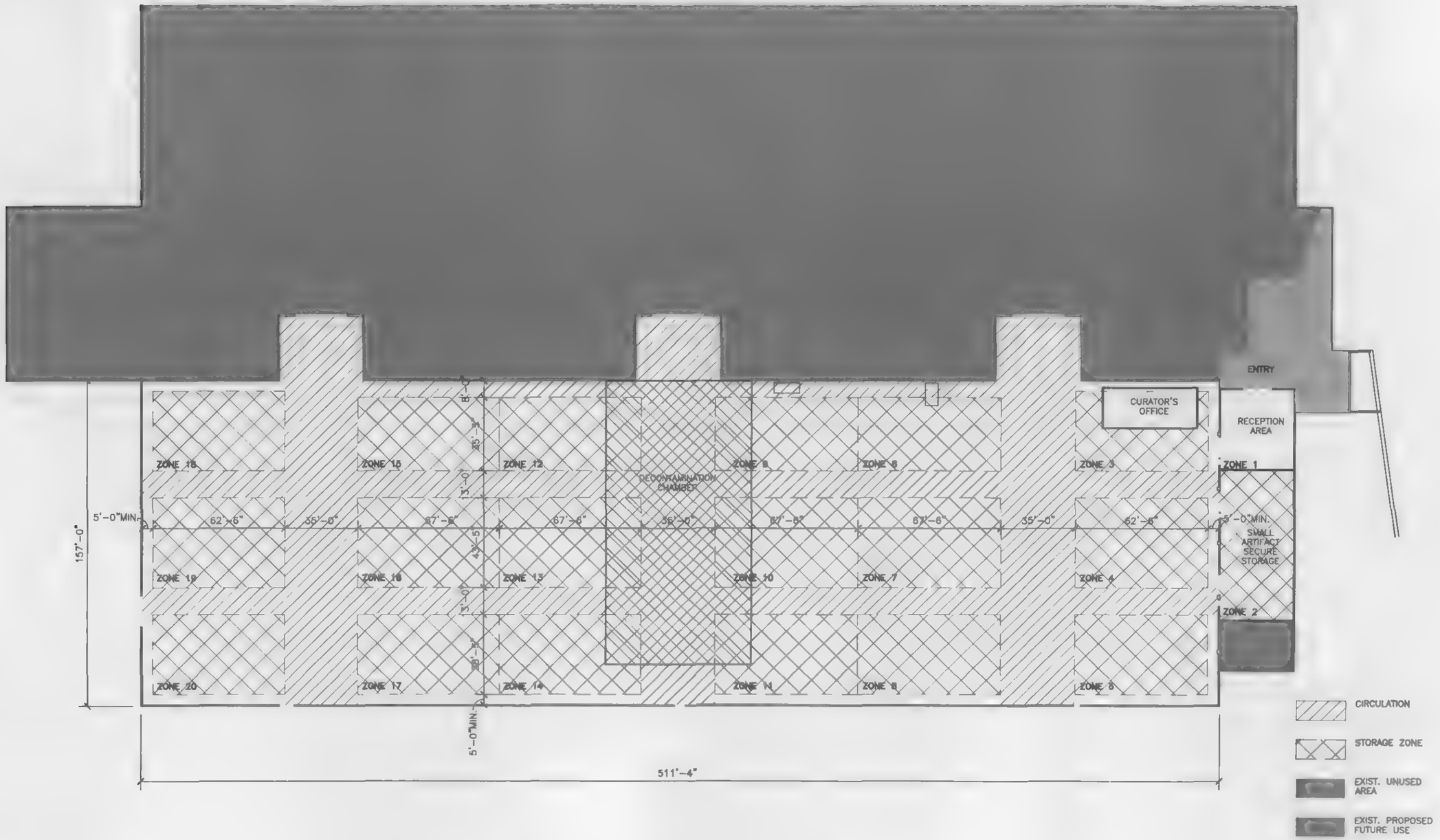
Hanger 17
Layout Studies



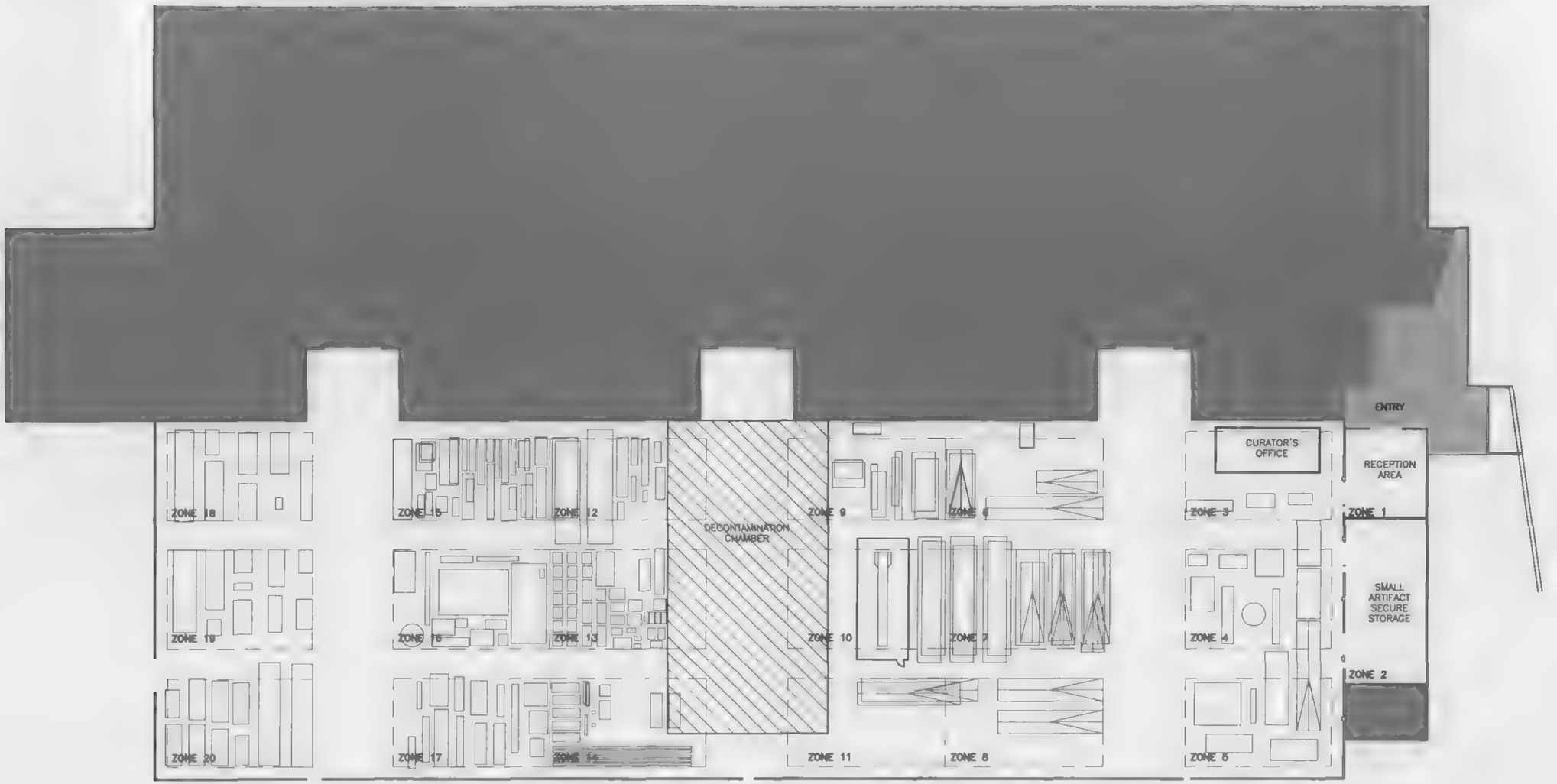
ARCHIVE CIRCULATION STUDY
HANGAR No. 17, JFK INTERNATIONAL AIRPORT

0 16' 32' 64' 128'

VOORSANGER & ASSOCIATES ARCHITECTS, PC
October 14, 2002

PRELIMINARY DRAFT

THE PORT AUTHORITY OF NY & NJ



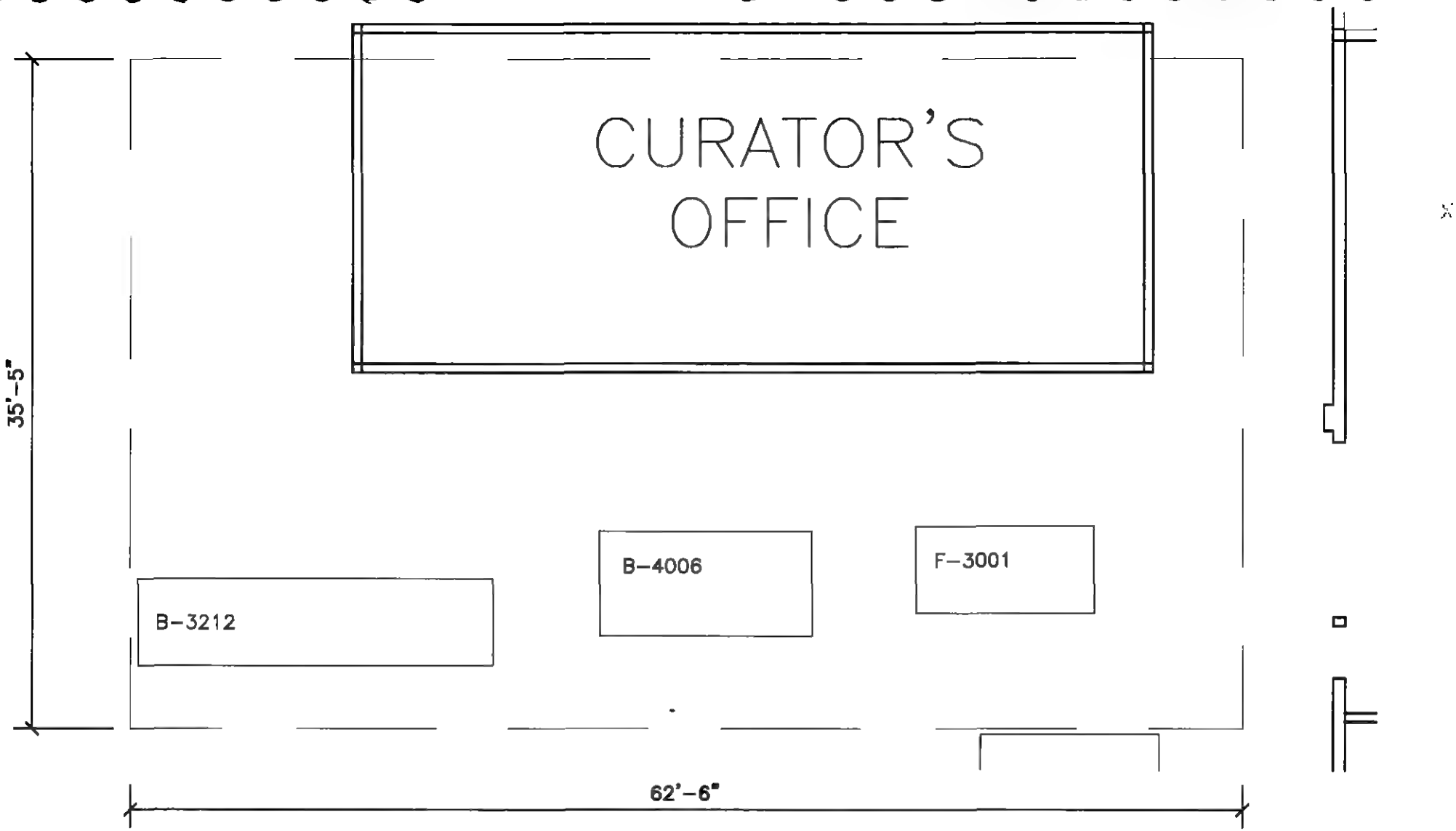
ARCHIVE LAYOUT STUDY
HANGAR No. 17, JFK INTERNATIONAL AIRPORT

0 16' 32' 64' 128'

VOORSANGER & ASSOCIATES ARCHITECTS, PC
October 14, 2002

PRELIMINARY DRAFT

THE PORT AUTHORITY OF NY & NJ



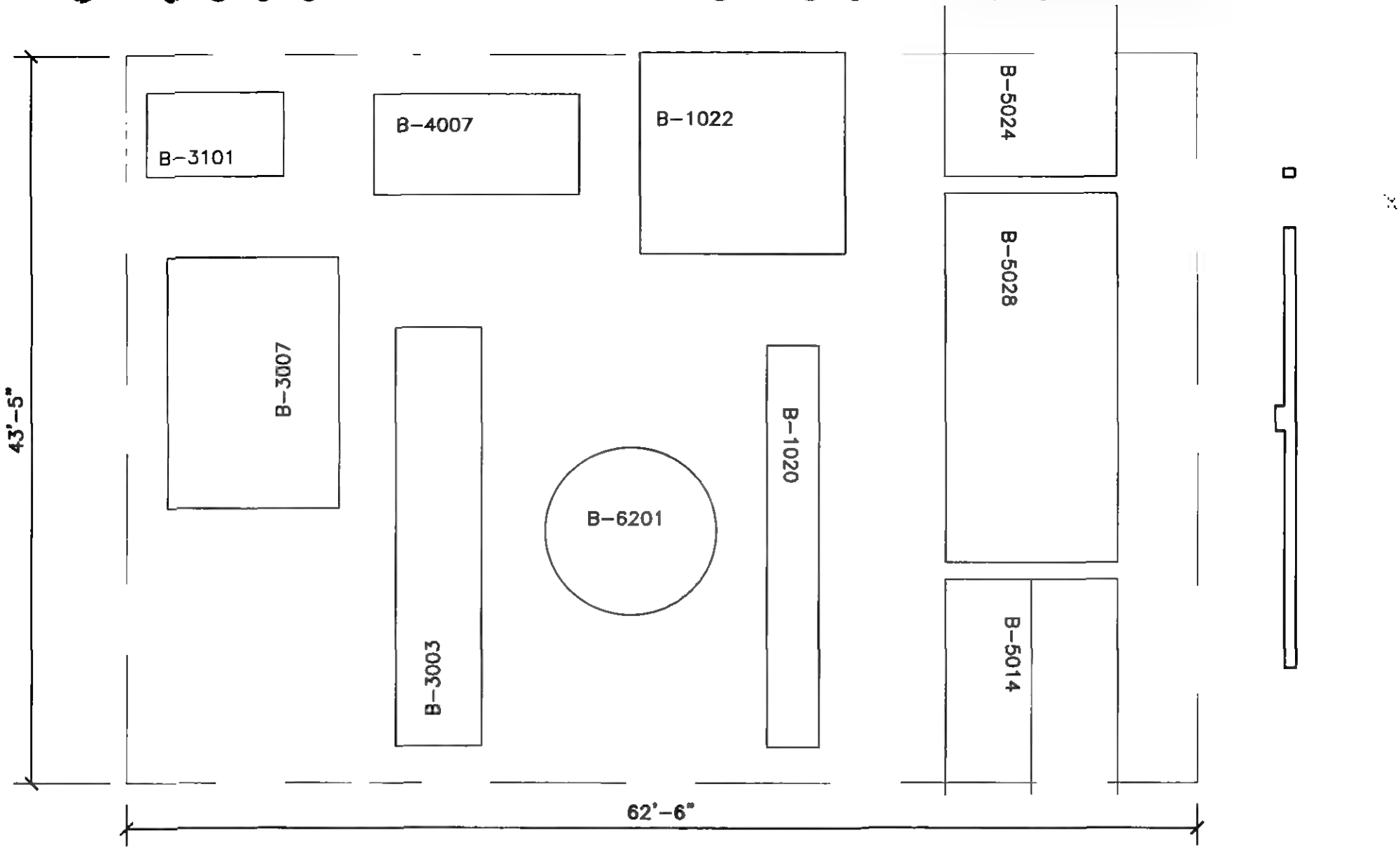
STORAGE ZONE 3

0 4' 8' 16' 32'

VOORSANGER & ASSOCIATES ARCHITECTS, PC
OCTOBER 14, 2002

THE PORT AUTHORITY OF NY & NJ

SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 4

0 4' 8' 16' 32'

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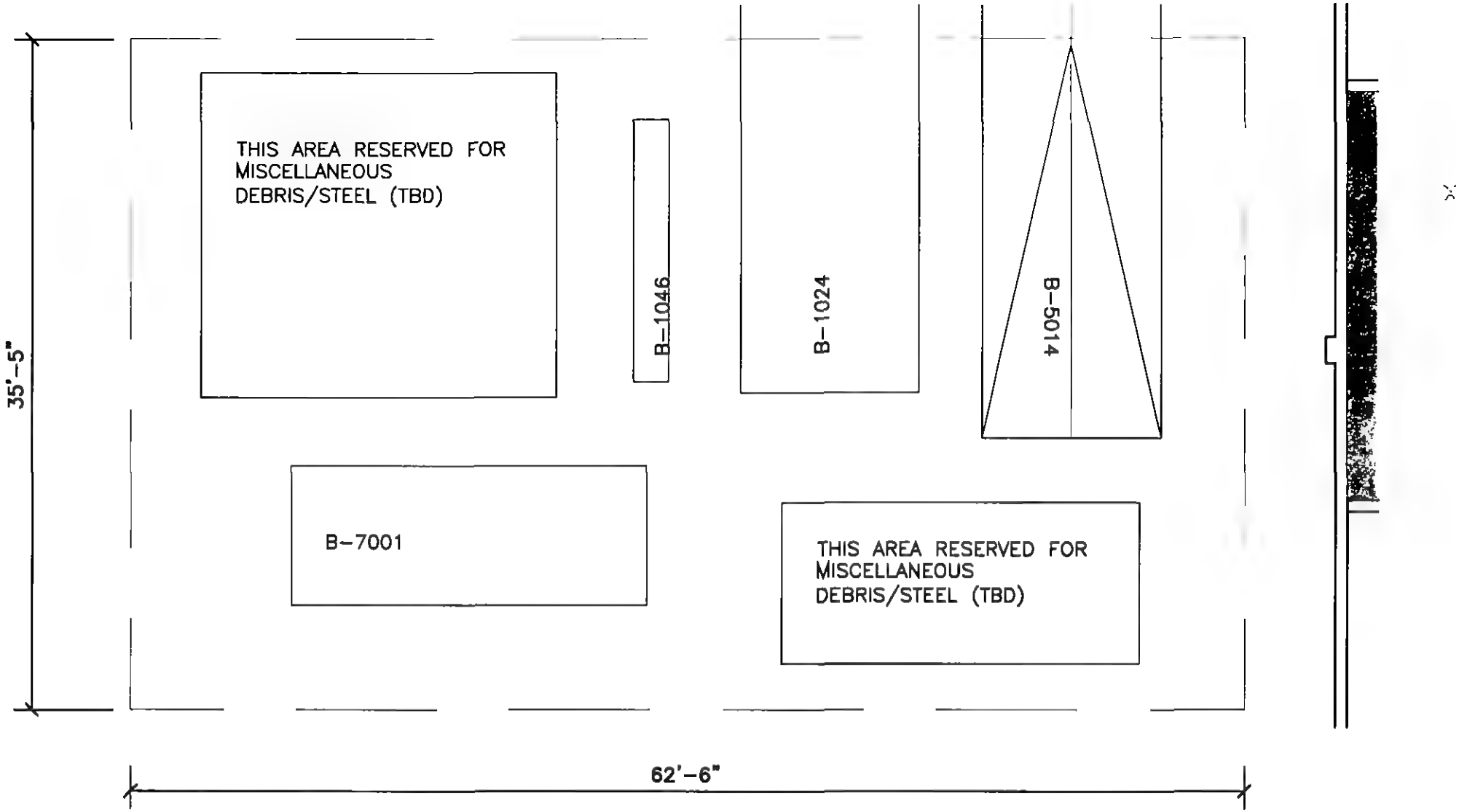
OCTOBER 14, 2002

THE PORT AUTHORITY OF NY & NJ

SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 5

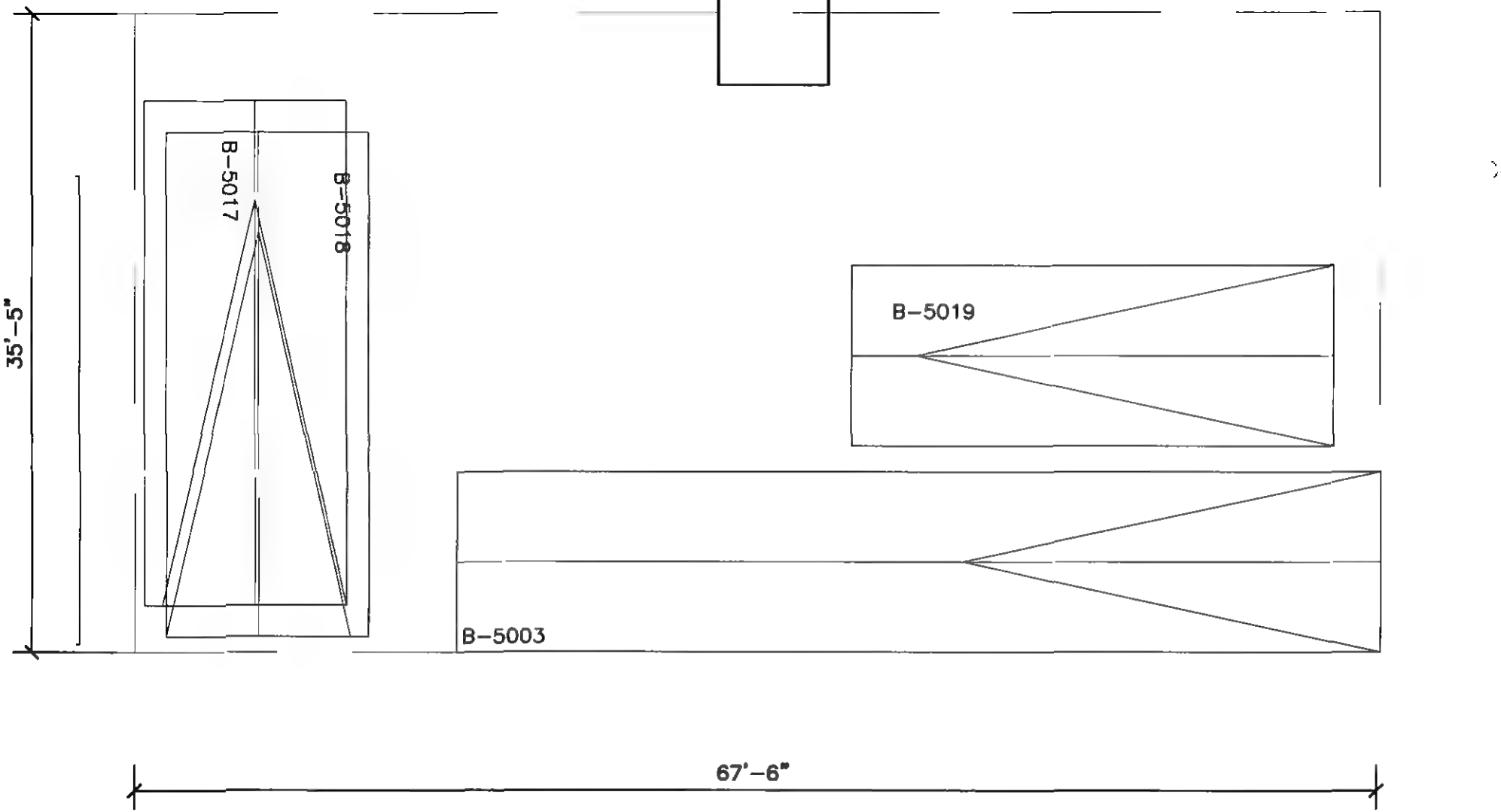
0 4' 8' 16' 32'

VOORSANGER & ASSOCIATES ARCHITECTS, PC

OCTOBER 14, 2002

THE PORT AUTHORITY OF NY & NJ

SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 6

0 4' 8' 16' 32'

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OCTOBER 14, 2002

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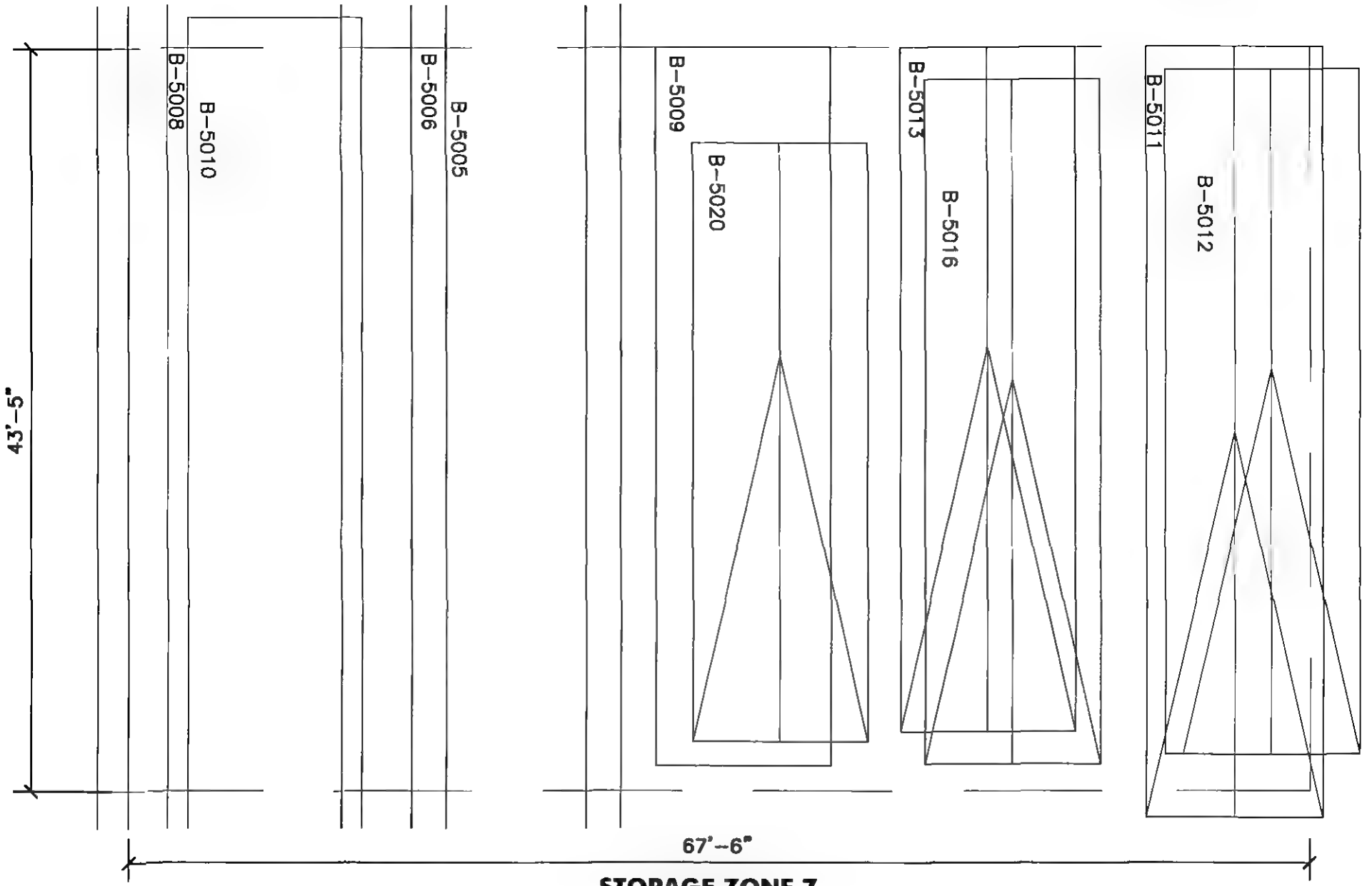
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 7

0 4' 8' 16' 32'

VOORSANGER & ASSOCIATES ARCHITECTS, PC

OCTOBER 14, 2002

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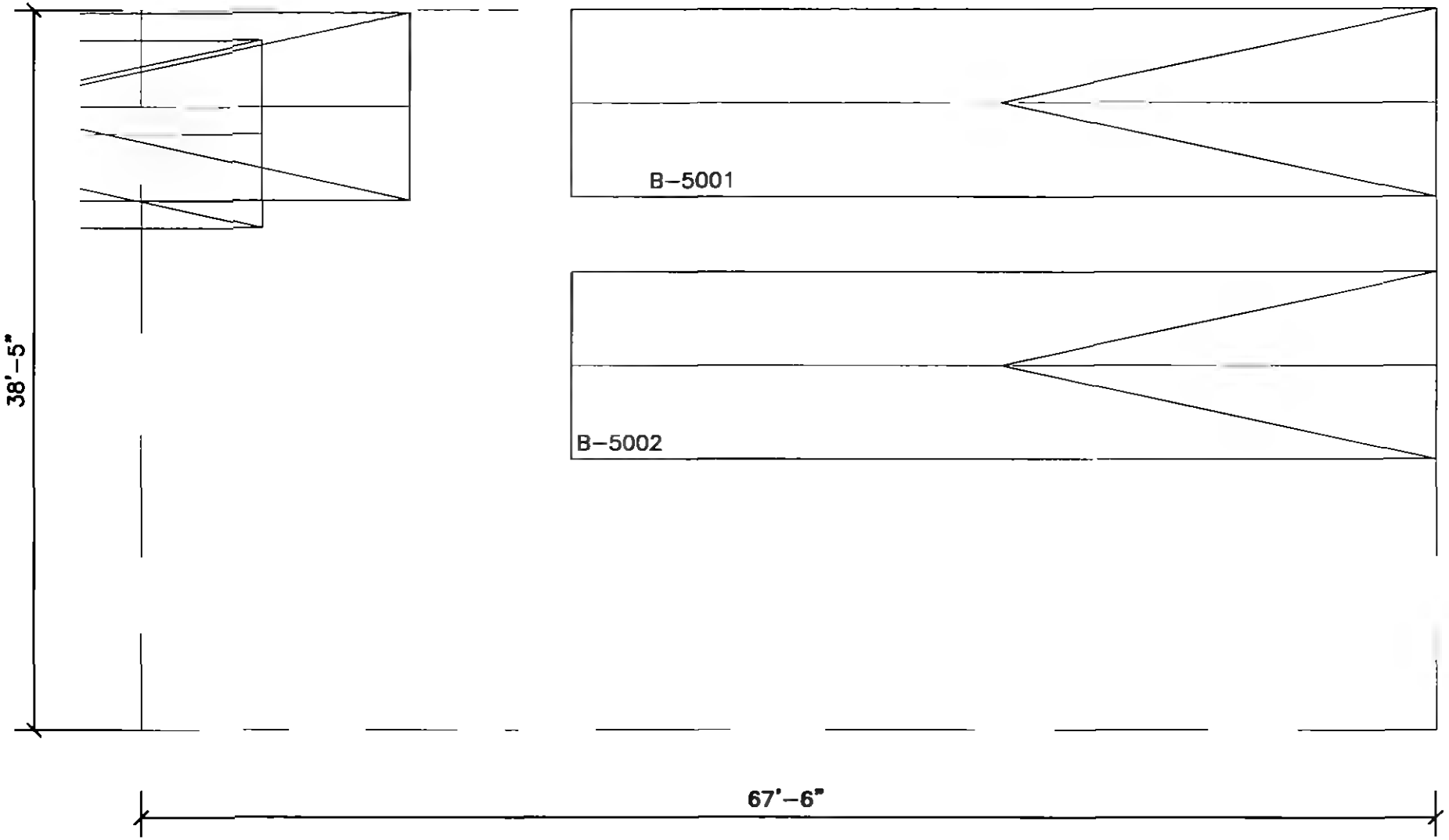
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



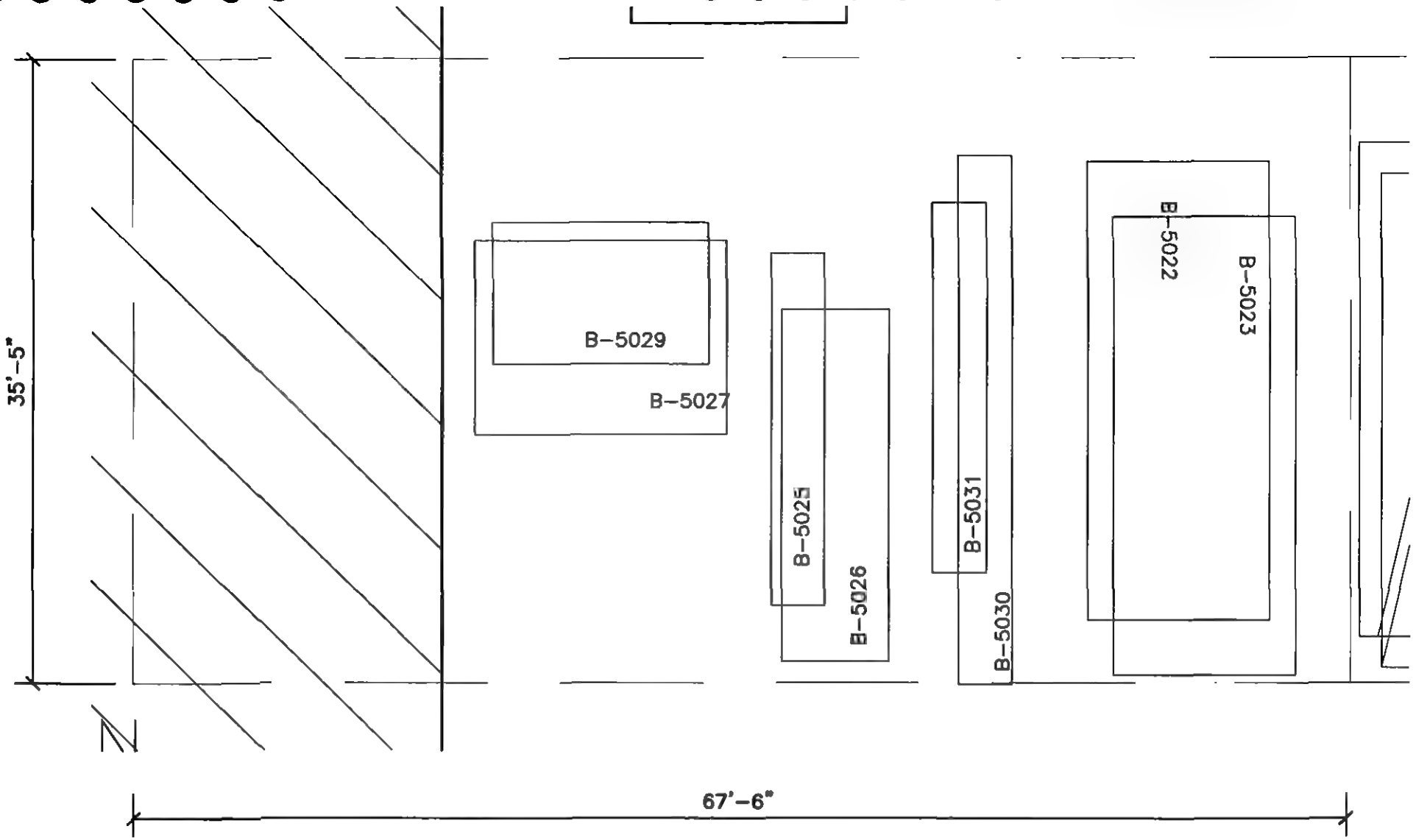
STORAGE ZONE 8

0 4' 8' 16' 32'

VOORSANGER & ASSOCIATES ARCHITECTS, PC
OCTOBER 14, 2002

THE PORT AUTHORITY OF NY & NJ

SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



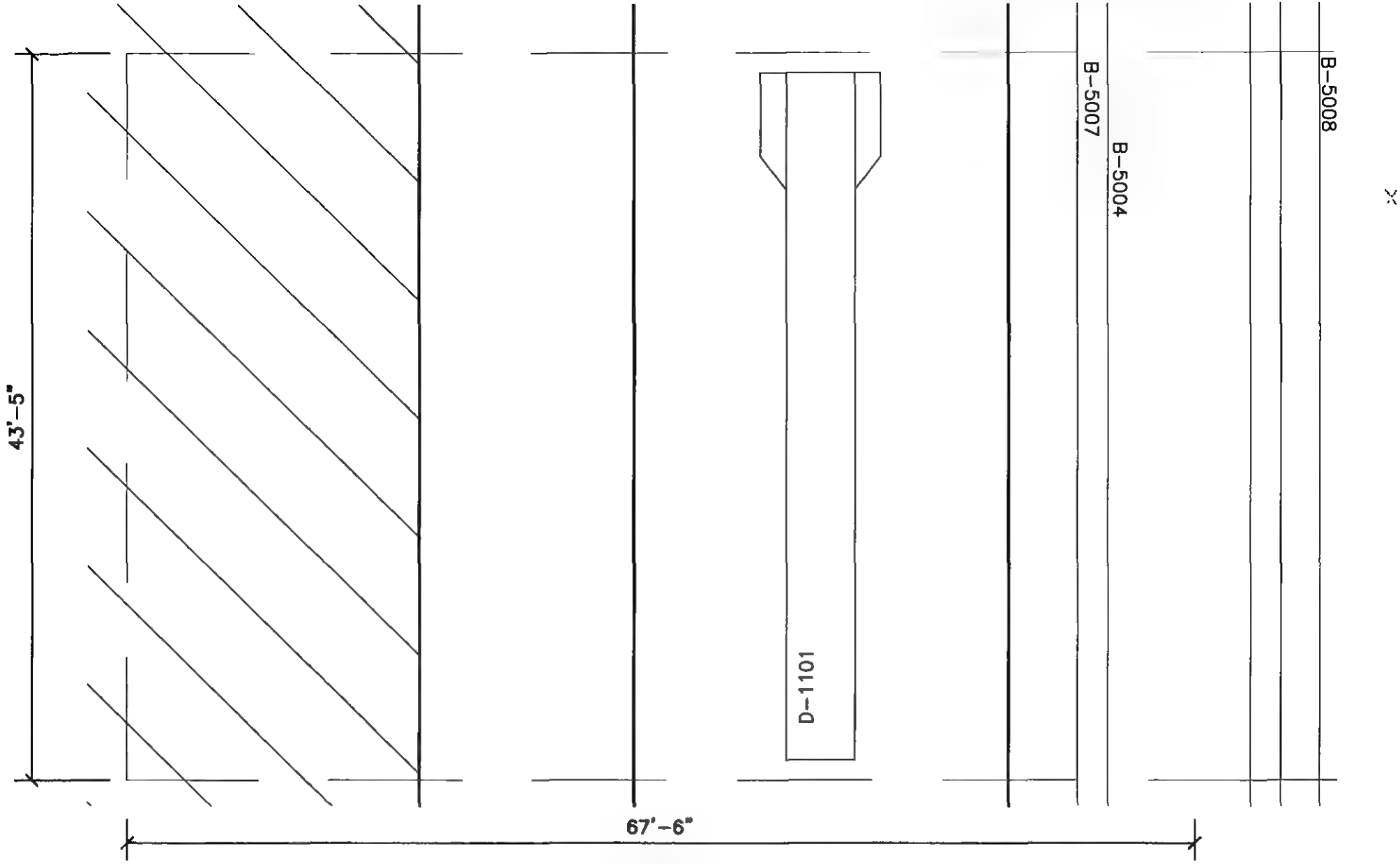
STORAGE ZONE 9

0 4' 8' 16' 32'

VOORSANGER & ASSOCIATES ARCHITECTS, PC
OCTOBER 14, 2002

THE PORT AUTHORITY OF NY & NJ

SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 10

0 4' 8' 16' 32'

VOORSANGER & ASSOCIATES ARCHITECTS, PC
OCTOBER 14, 2002

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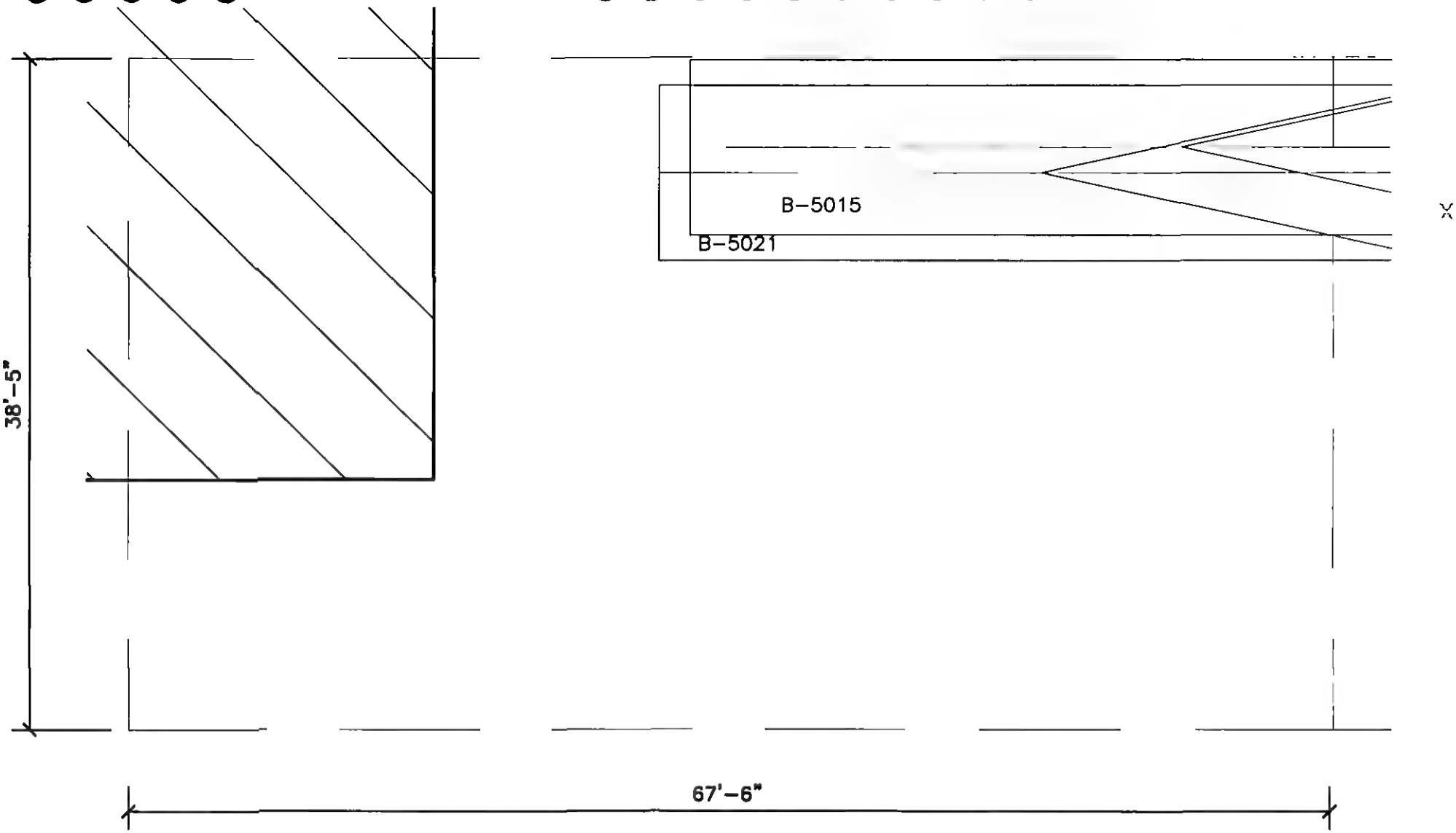
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 11

0 4' 8' 16' 32'

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OCTOBER 14, 2002

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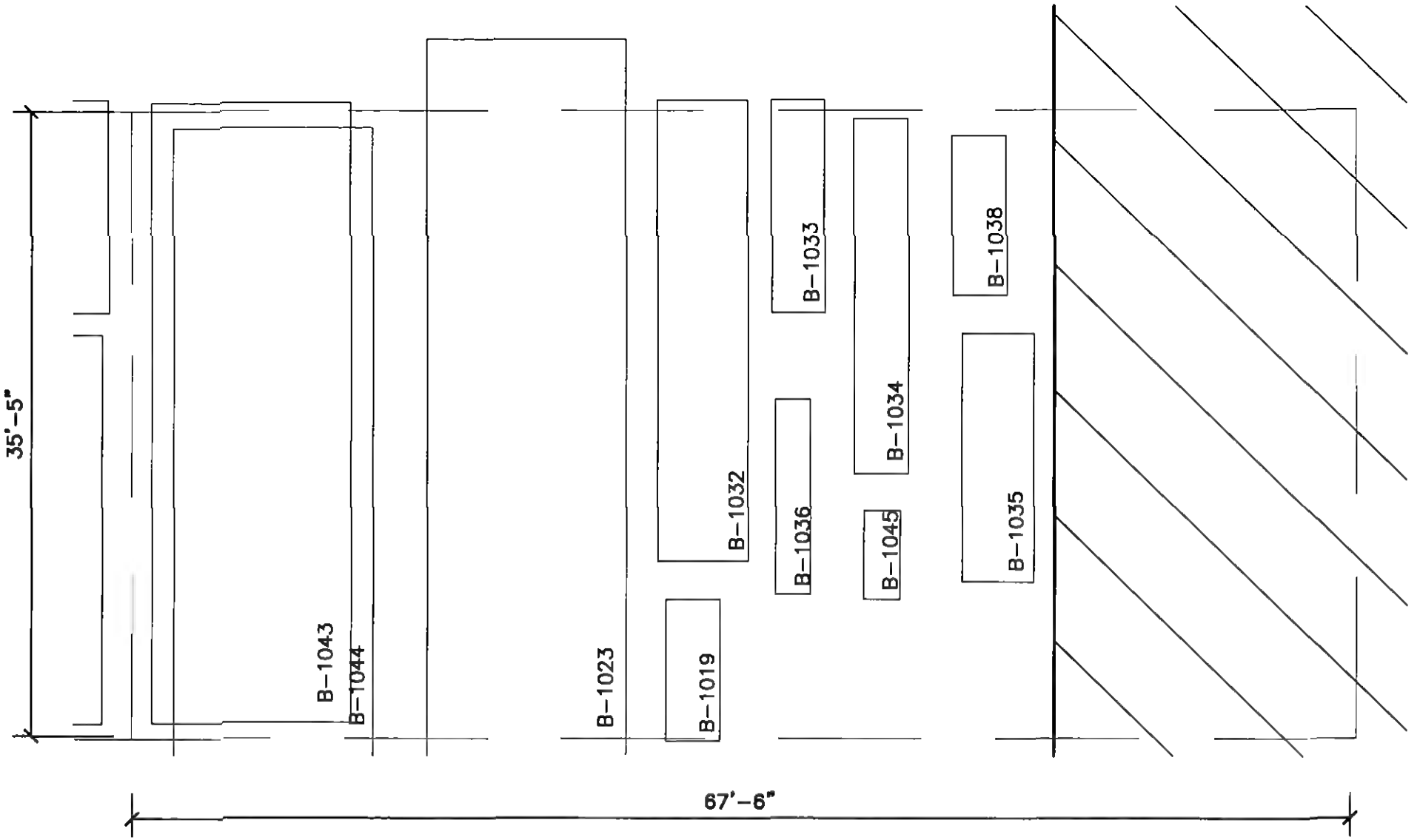
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 12

0 4' 8' 16' 32'

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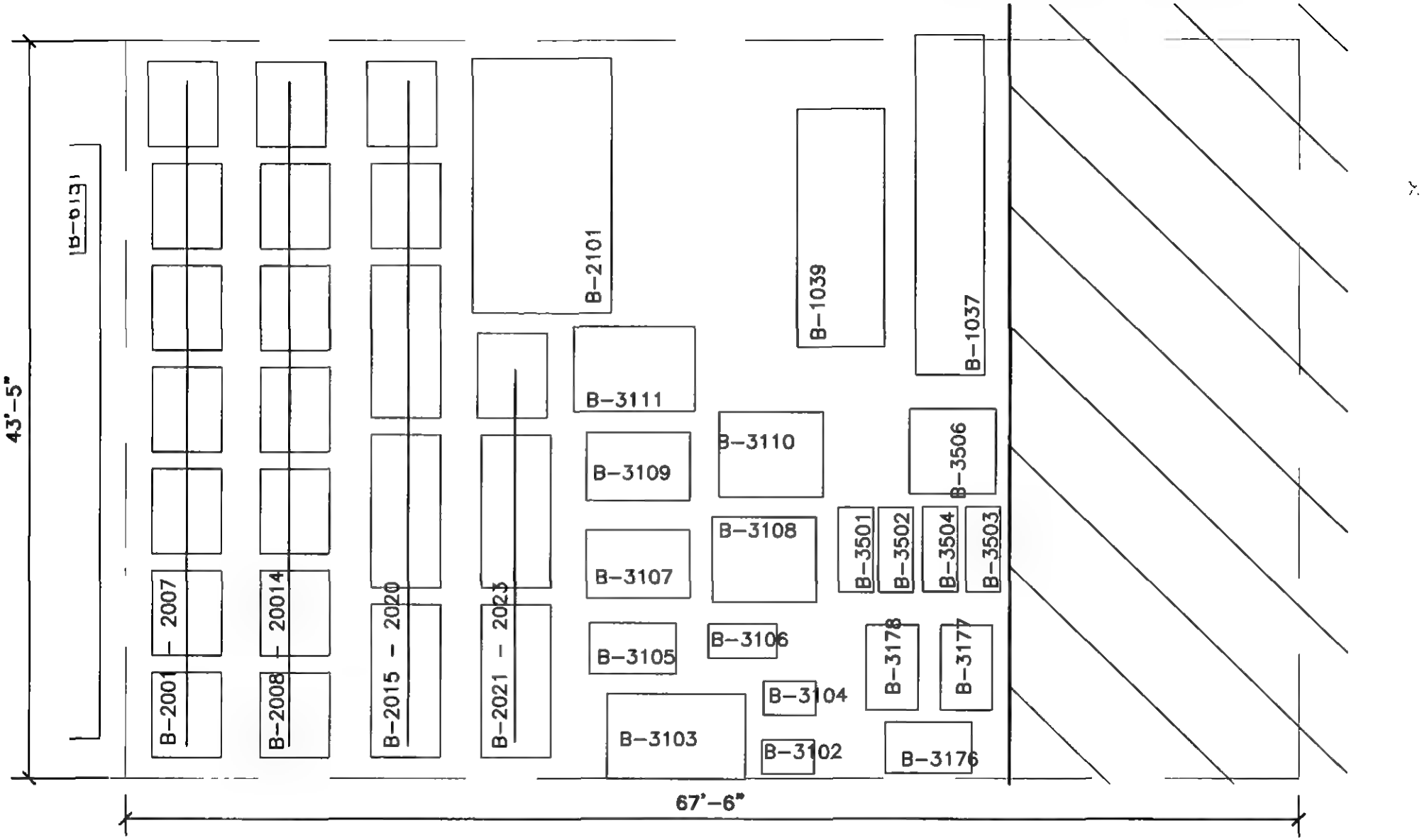
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 13

0 4' 8' 16' 32'

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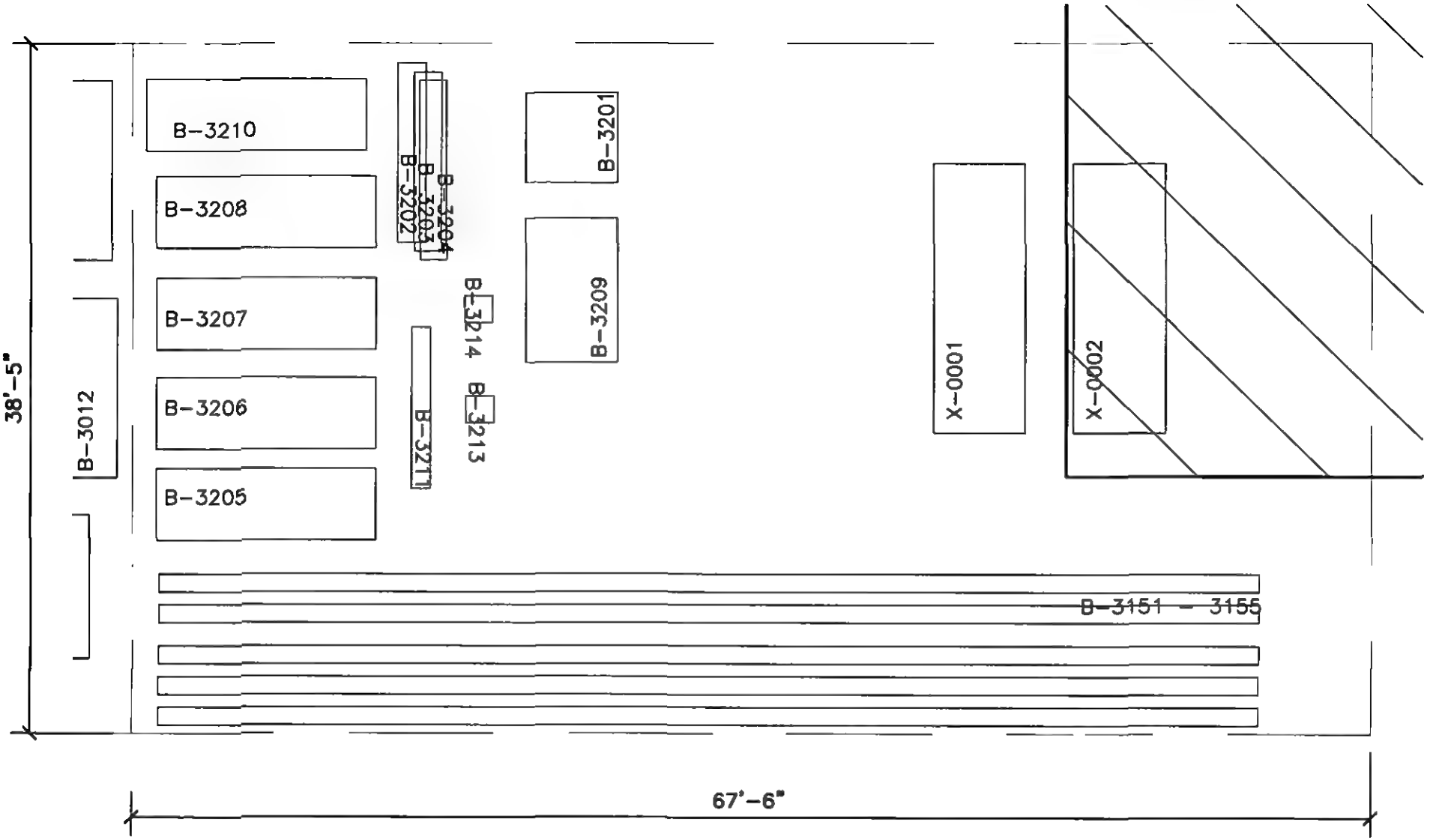
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 14

0 4' 8' 16' 32'

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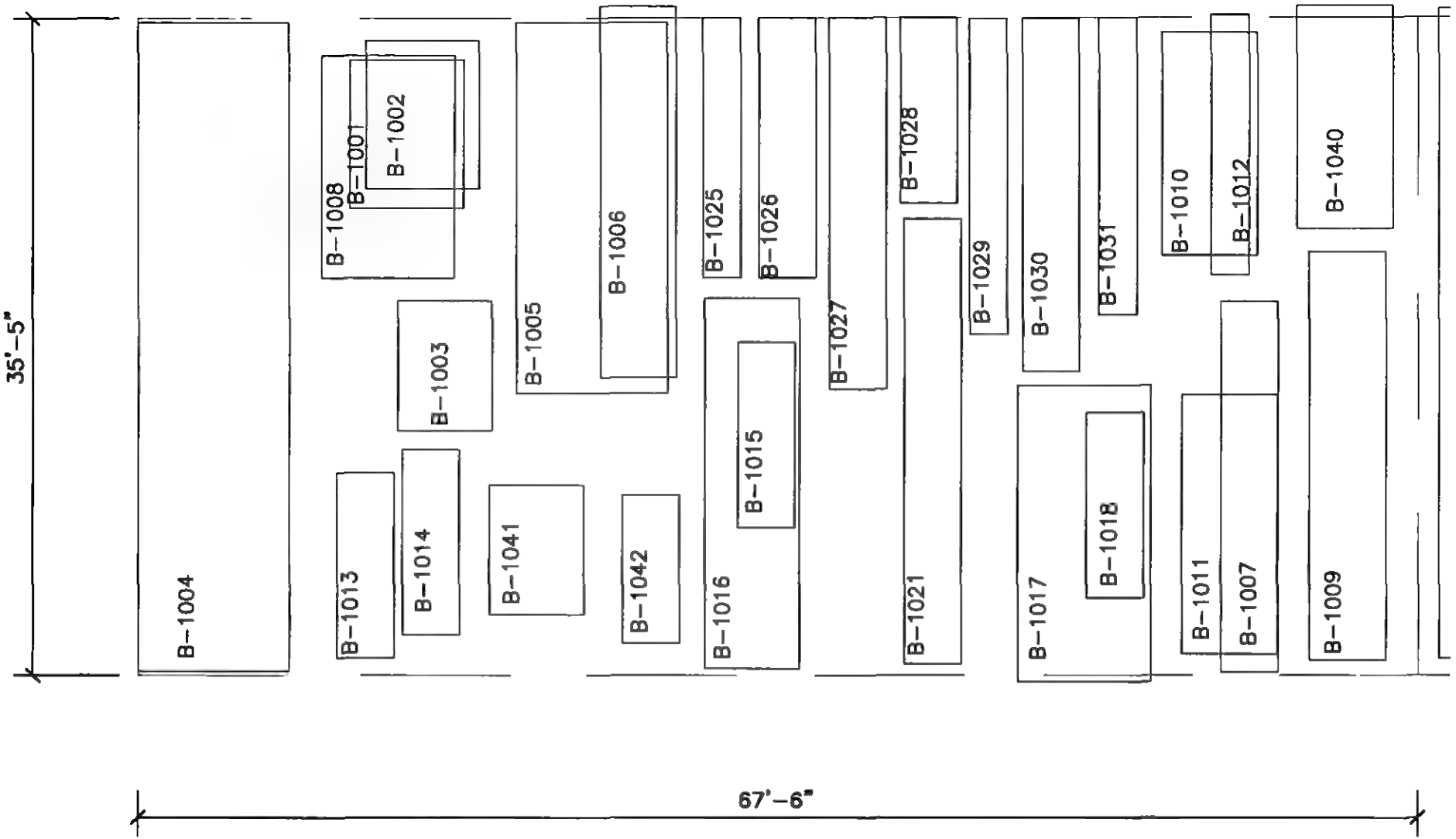
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 15

0 4' 8' 16' 32'

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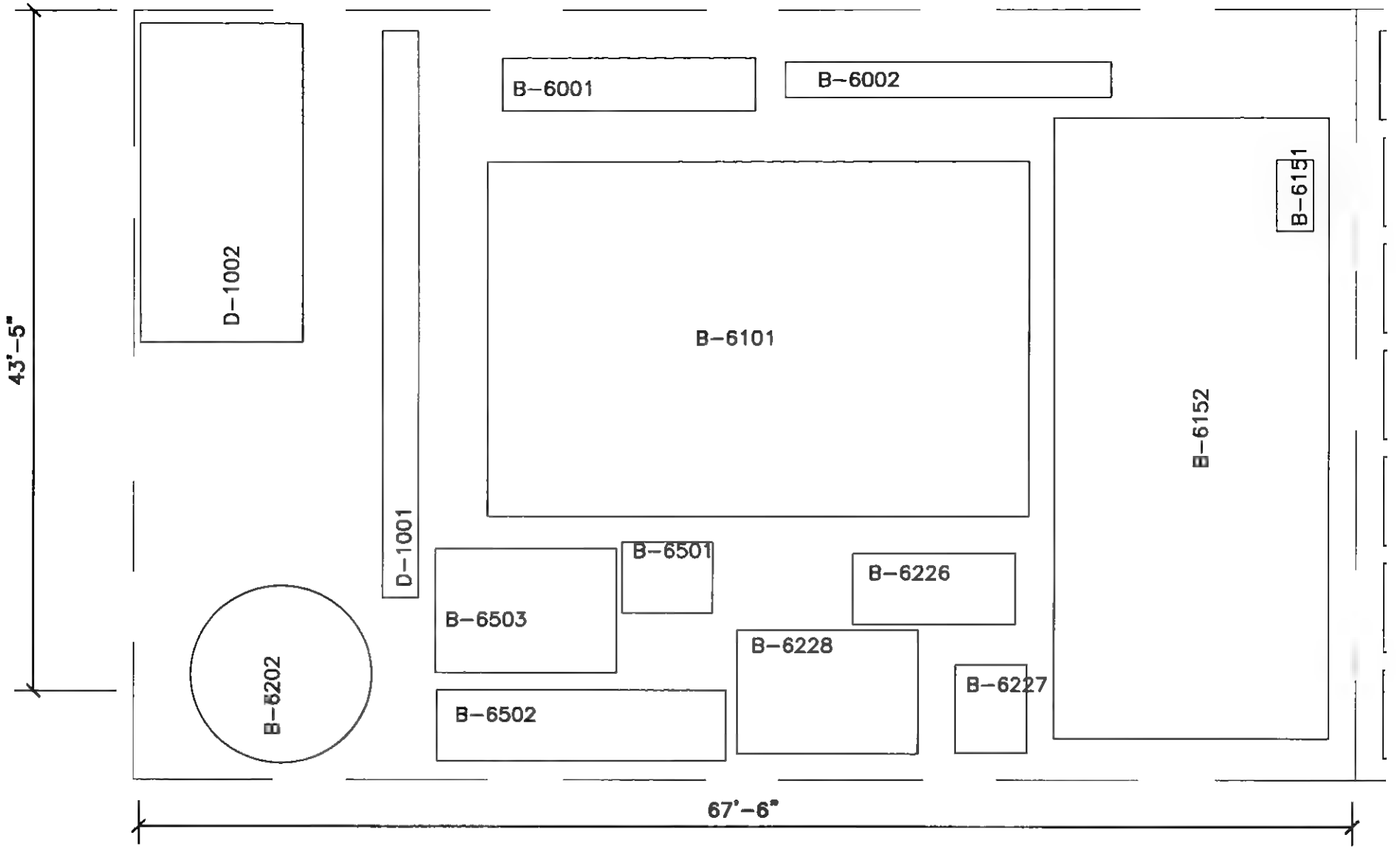
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 16

0 4' 8' 16' 32'

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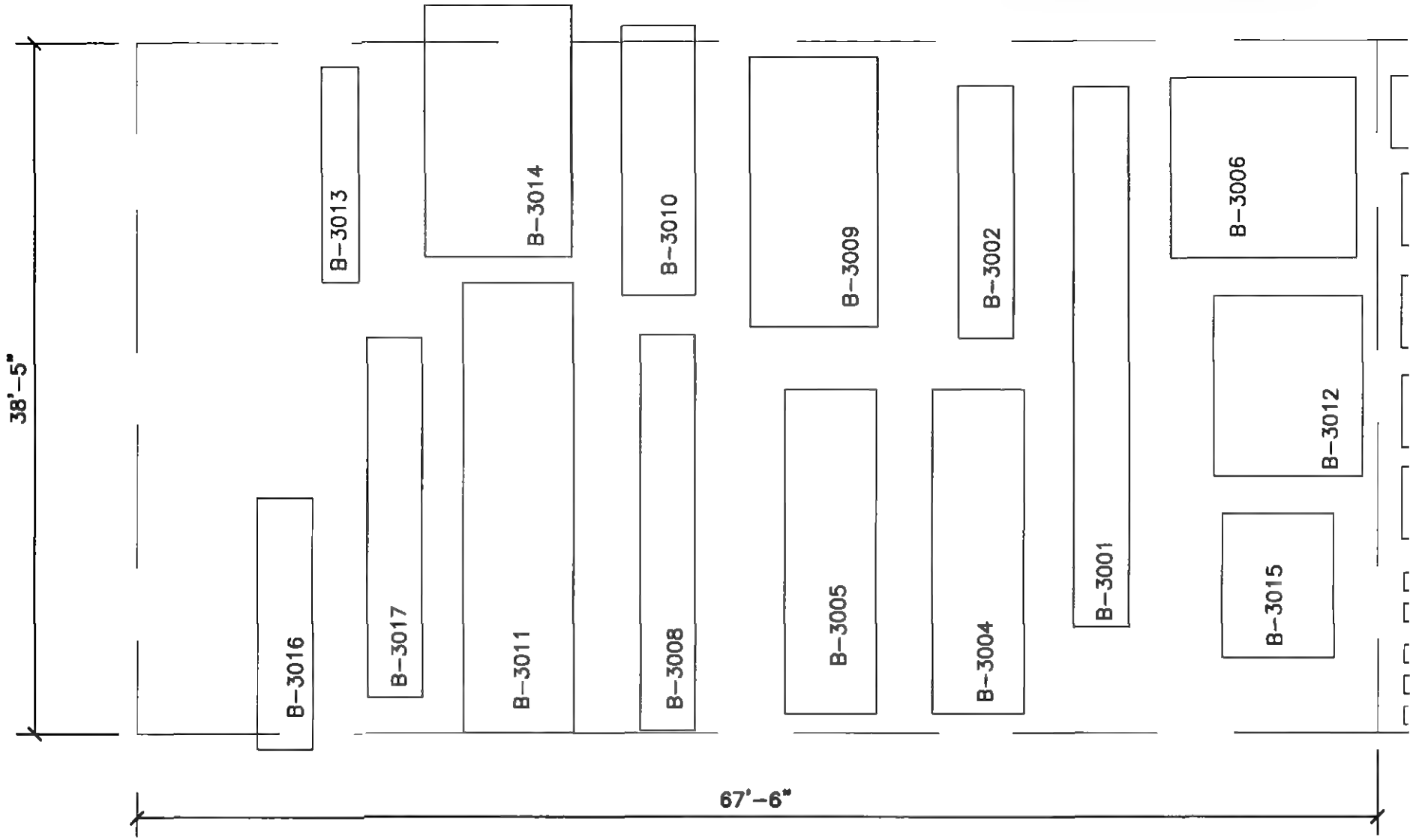
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 17

0 4' 8' 16' 32'

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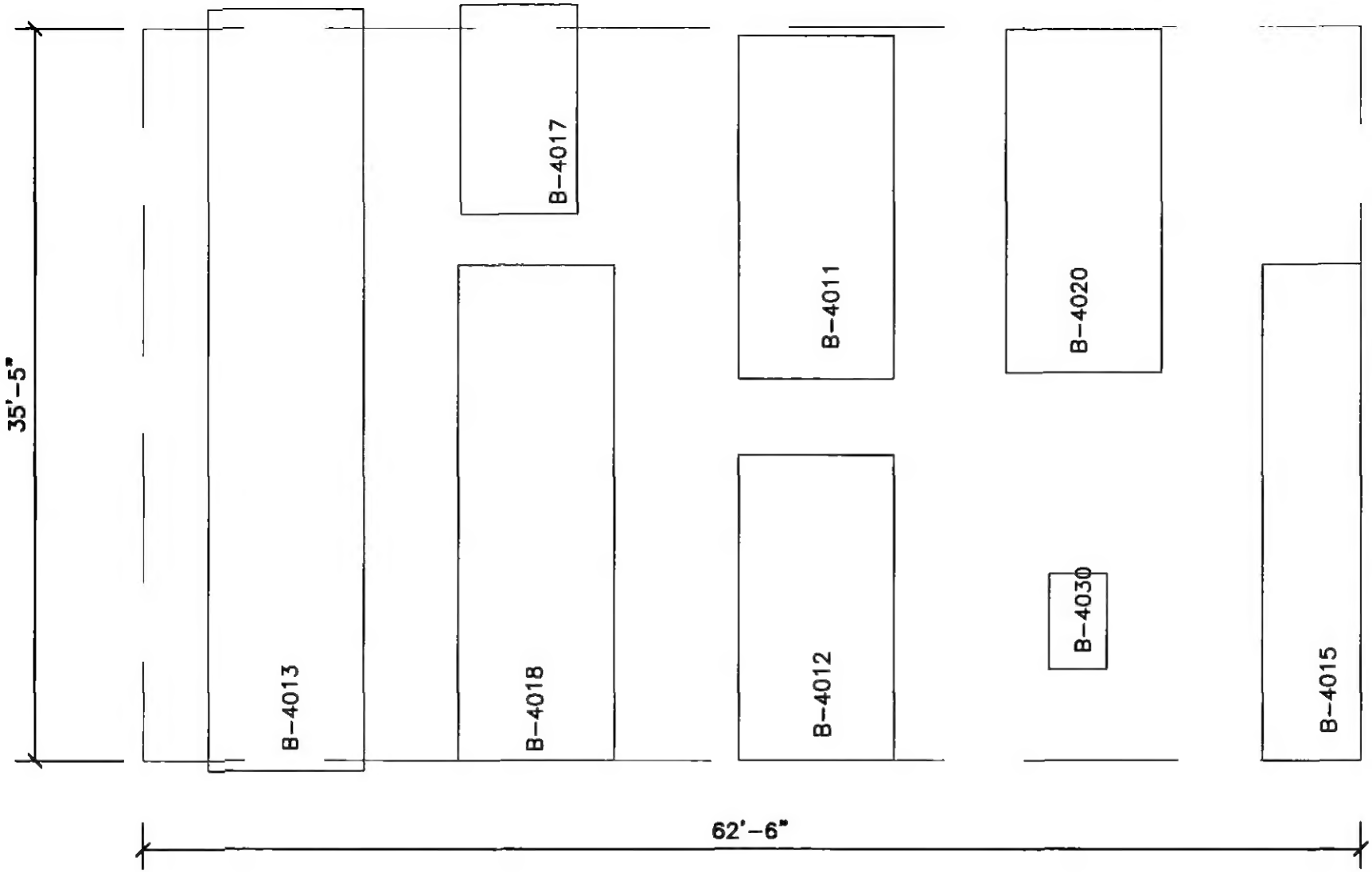
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 18

0 4' 8' 16' 32'

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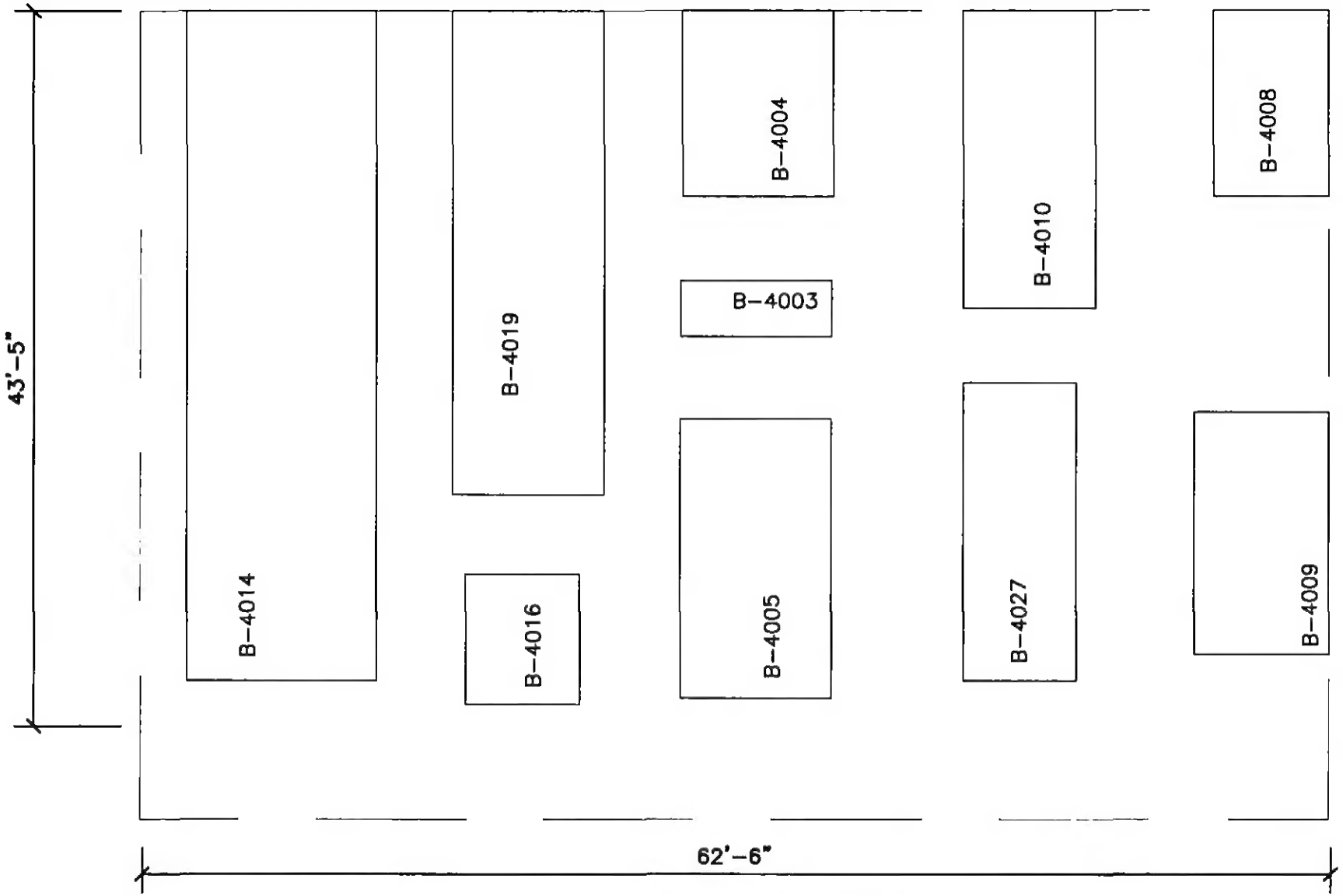
SALVAGED OBJECTS FOR FUTURE WORLD TRADE CENTER ARCHIVE



STORAGE ZONE 19

0 4' 8' 16' 32'

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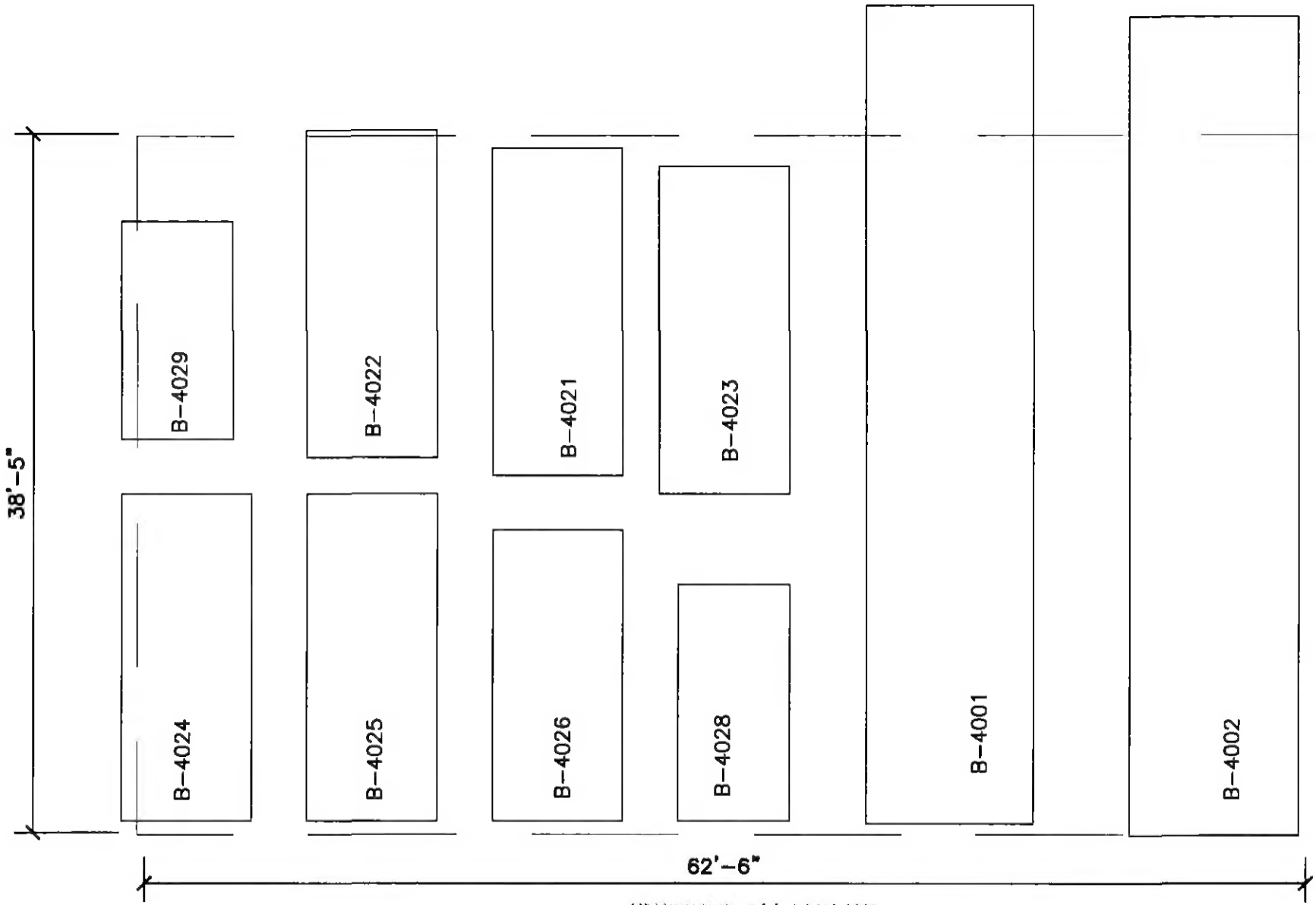

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SALVAGED OBJECTS FROM THE
WORLD TRADE CENTER ARCHIVE